

GOMOS Daily Report 19-FEB-2010

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	22FEB2010 04:33:44
Data source version	GOMOS/5.00L04
Start time of products	19FEB2010 00:01:26
Stop time of products	19FEB2010 22:41:14
Store outputs in DB	Yes
Nb of level 1b prods	60
Nb of prods with errors	0

2. Summary of products arrived in PCF (Product Control Facility)

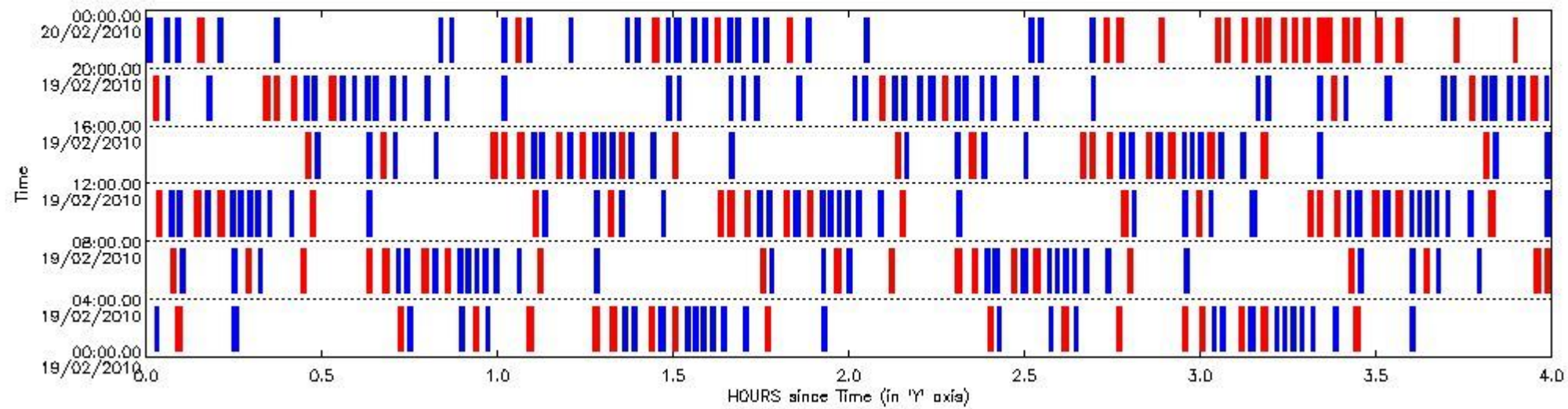
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
19-FEB-2010 00:05:03	LamVel	65	41682
19-FEB-2010 00:43:01	1AlpUMi	49	41682
19-FEB-2010 00:55:48	18DelCyg	144	41682
19-FEB-2010 01:05:05	17ZetAql	168	41682
19-FEB-2010 01:16:22	34SigSgr	57	41682
19-FEB-2010 01:19:13	20EpsSgr	38	41682
19-FEB-2010 01:25:52	BetAra	141	41682
19-FEB-2010 01:29:49	BetTrA	134	41683
19-FEB-2010 01:45:40	LamVel	65	41683
19-FEB-2010 02:23:36	1AlpUMi	49	41683
19-FEB-2010 02:36:24	18DelCyg	144	41683
19-FEB-2010 02:45:41	17ZetAql	168	41683
19-FEB-2010 02:56:58	34SigSgr	57	41683
19-FEB-2010 02:59:49	20EpsSgr	38	41683
19-FEB-2010 03:06:28	BetAra	141	41683

19-FEB-2010 03:10:26	BetTrA	134	41684
19-FEB-2010 03:26:16	LamVel	65	41684
19-FEB-2010 04:04:12	1AlpUMi	49	41684
19-FEB-2010 04:17:00	18DelCyg	144	41684
19-FEB-2010 04:26:17	17ZetAql	168	41684
19-FEB-2010 04:37:34	34SigSgr	57	41684
19-FEB-2010 04:40:26	20EpsSgr	38	41684
19-FEB-2010 04:47:05	BetAra	141	41684
19-FEB-2010 04:51:02	BetTrA	134	41685
19-FEB-2010 05:06:52	LamVel	65	41685
19-FEB-2010 05:44:48	1AlpUMi	49	41685
19-FEB-2010 05:57:36	18DelCyg	144	41685
19-FEB-2010 06:06:54	17ZetAql	168	41685
19-FEB-2010 06:18:11	34SigSgr	57	41685
19-FEB-2010 06:21:02	20EpsSgr	38	41685
19-FEB-2010 06:27:41	BetAra	141	41685
19-FEB-2010 06:31:38	BetTrA	134	41686
19-FEB-2010 06:47:28	LamVel	65	41686
19-FEB-2010 07:25:24	1AlpUMi	49	41686
19-FEB-2010 07:38:12	18DelCyg	144	41686
19-FEB-2010 07:57:05	41PiSgr	155	41686
19-FEB-2010 07:58:47	34SigSgr	57	41686
19-FEB-2010 08:01:39	20EpsSgr	38	41686
19-FEB-2010 08:08:17	BetAra	141	41686
19-FEB-2010 08:12:15	BetTrA	134	41687
19-FEB-2010 08:28:04	LamVel	65	41687
19-FEB-2010 09:06:00	1AlpUMi	49	41687
19-FEB-2010 09:18:48	18DelCyg	144	41687
19-FEB-2010 09:37:41	41PiSgr	155	41687
19-FEB-2010 09:39:23	34SigSgr	57	41687
19-FEB-2010 09:42:15	20EpsSgr	38	41687
19-FEB-2010 09:48:54	BetAra	141	41687
19-FEB-2010 09:52:51	BetTrA	134	41688
19-FEB-2010 10:08:40	LamVel	65	41688
19-FEB-2010 10:46:36	1AlpUMi	49	41688
19-FEB-2010 10:59:24	18DelCyg	144	41688
19-FEB-2010 11:18:18	41PiSgr	155	41688
19-FEB-2010 11:20:00	34SigSgr	57	41688
19-FEB-2010 11:22:51	20EpsSgr	38	41688
19-FEB-2010 11:29:30	BetAra	141	41688
19-FEB-2010 11:33:28	BetTrA	134	41689
19-FEB-2010 11:49:17	LamVel	65	41689
19-FEB-2010 12:27:12	1AlpUMi	49	41689
19-FEB-2010 12:40:00	18DelCyg	144	41689
19-FEB-2010 12:58:54	41PiSgr	155	41689
19-FEB-2010 13:00:36	34SigSgr	57	41689
19-FEB-2010 13:03:28	20EpsSgr	38	41689
19-FEB-2010 13:10:06	BetAra	141	41689
19-FEB-2010 13:14:04	BetTrA	134	41690
19-FEB-2010 13:20:42	Alp1Cru	12	41690
19-FEB-2010 13:29:53	LamVel	65	41690
19-FEB-2010 14:07:48	1AlpUMi	49	41690
19-FEB-2010 14:20:36	18DelCyg	144	41690
19-FEB-2010 14:39:30	41PiSgr	155	41690
19-FEB-2010 14:41:12	34SigSgr	57	41690
19-FEB-2010 14:44:04	20EpsSgr	38	41690
19-FEB-2010 14:50:43	BetAra	141	41690
19-FEB-2010 14:54:40	BetTrA	134	41691
19-FEB-2010 15:01:18	Alp1Cru	12	41691

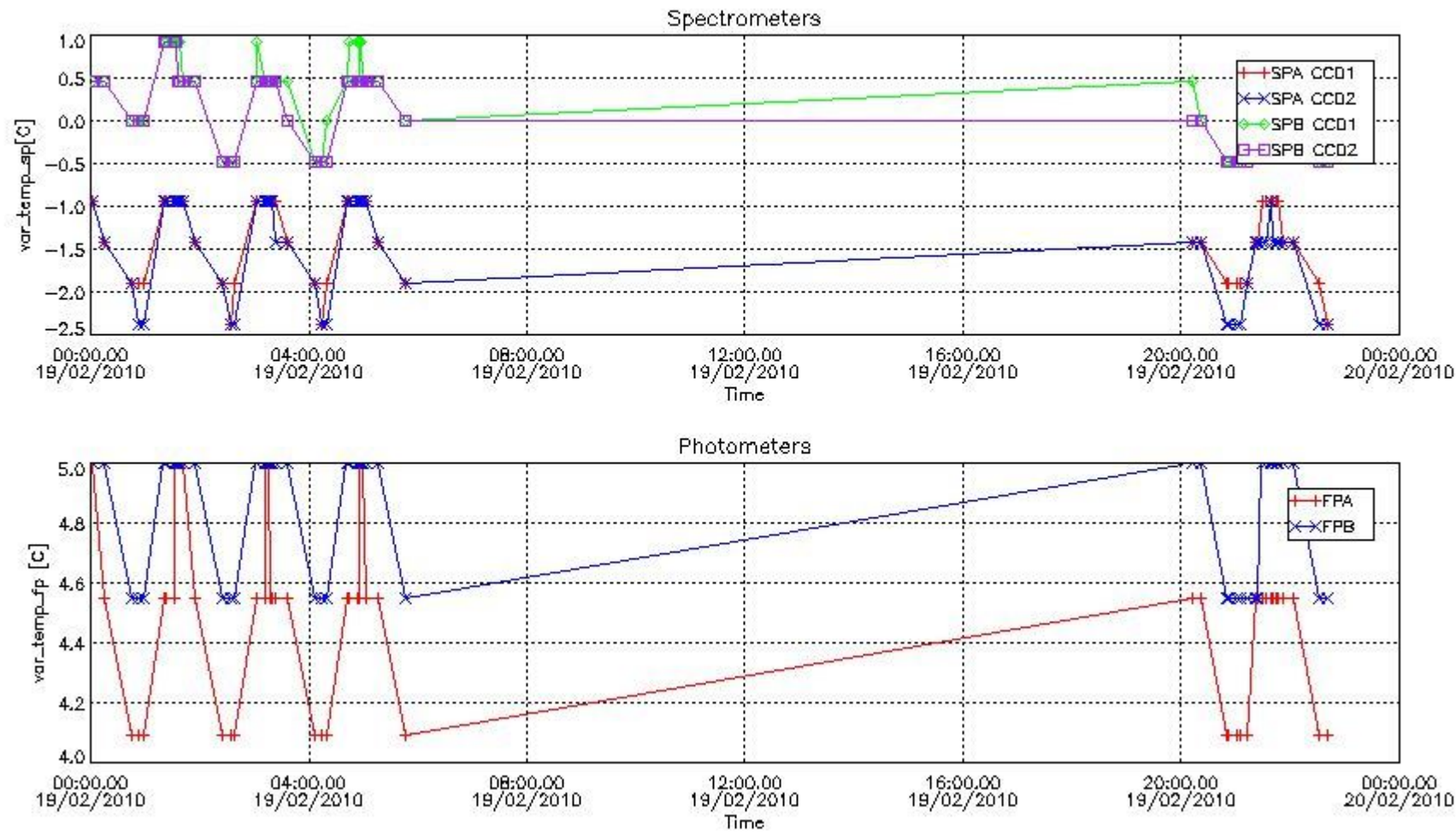
19-FEB-2010 15:10:29	LamVel	65	41691
19-FEB-2010 15:48:24	1AlpUMi	49	41691
19-FEB-2010 16:01:12	18DelCyg	144	41691
19-FEB-2010 16:20:06	41PiSgr	155	41691
19-FEB-2010 16:21:48	34SigSgr	57	41691
19-FEB-2010 16:24:40	20EpsSgr	38	41691
19-FEB-2010 16:31:19	BetAra	141	41691
19-FEB-2010 18:05:17	20EpsSgr	38	41692
19-FEB-2010 18:15:53	BetTrA	134	41693
19-FEB-2010 19:22:25	18DelCyg	144	41693
19-FEB-2010 19:45:53	20EpsSgr	38	41693
19-FEB-2010 19:56:30	BetTrA	134	41694
19-FEB-2010 20:08:50	MuVel	113	41694
19-FEB-2010 21:03:01	18DelCyg	144	41694
19-FEB-2010 21:26:30	20EpsSgr	38	41694
19-FEB-2010 21:37:06	BetTrA	134	41695
19-FEB-2010 21:49:26	MuVel	113	41695
19-FEB-2010 22:43:37	18DelCyg	144	41695
19-FEB-2010 22:45:50	3AlpLyr	5	41695
19-FEB-2010 22:52:55	17ZetAql	168	41695
19-FEB-2010 23:02:31	41PiSgr	155	41695
19-FEB-2010 23:04:13	34SigSgr	57	41695
19-FEB-2010 23:07:06	20EpsSgr	38	41695
19-FEB-2010 23:09:28	35LamSco	25	41695
19-FEB-2010 23:10:56	26EpsSco	75	41695
19-FEB-2010 23:13:45	BetAra	141	41695
19-FEB-2010 23:15:37	DSA1025	0	41696
19-FEB-2010 23:17:43	BetTrA	134	41696
19-FEB-2010 23:20:05	Alp1Cen	4	41696
19-FEB-2010 23:21:25	BetCen	10	41696
19-FEB-2010 23:24:20	Alp1Cru	12	41696
19-FEB-2010 23:26:17	GamCen	64	41696
19-FEB-2010 23:30:02	MuVel	113	41696
19-FEB-2010 23:33:30	LamVel	65	41696
19-FEB-2010 23:43:15	30AlpHya	48	41696
19-FEB-2010 23:53:30	17EpsLeo	166	41696

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100219_000126_000000432087_00045_41682_0035.N1	19-FEB-2010 00:01:26	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	41682	No
2	GOM_TRA_1PNPDE20100219_001443_000000512087_00045_41682_0036.N1	19-FEB-2010 00:14:43	Twilight	51.000	48	30Alp Hya	1.9770	4100.0	102	41682	No
3	GOM_TRA_1PNPDE20100219_004442_000000422087_00045_41682_0037.N1	19-FEB-2010 00:44:42	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	41682	No
4	GOM_TRA_1PNPDE20100219_005329_000000452087_00045_41682_0038.N1	19-FEB-2010 00:53:29	Bright	44.500	130	23Bet Dra	2.7990	5800.0	89	41682	No
5	GOM_TRA_1PNPDE20100219_005754_000000372087_00045_41682_0039.N1	19-FEB-2010 00:57:54	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	41682	No
6	GOM_TRA_1PNPDE20100219_012124_000000462087_00045_41682_0060.N1	19-FEB-2010 01:21:24	Dark	46.000	25	35Lam Sco	1.6200	28000.	92	41682	No
7	GOM_TRA_1PNPDE20100219_012249_000000532087_00045_41682_0061.N1	19-FEB-2010 01:22:49	Dark	53.000	75	26Eps Sco	2.2910	4250.0	106	41682	No
8	GOM_TRA_1PNPDE20100219_013202_000000442087_00046_41683_0062.N1	19-FEB-2010 01:32:02	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	41683	No
9	GOM_TRA_1PNPDE20100219_013322_000000512087_00046_41683_0063.N1	19-FEB-2010 01:33:22	Dark	51.000	10	Bet Cen	0.61000	28000.	102	41683	No
10	GOM_TRA_1PNPDE20100219_013451_000000472087_00046_41683_0064.N1	19-FEB-2010 01:34:51	Dark	47.000	77	Eps Cen	2.3030	28000.	94	41683	No
11	GOM_TRA_1PNPDE20100219_013619_000000492087_00046_41683_0065.N1	19-FEB-2010 01:36:19	Dark	49.000	12	Alp1Cru	0.77500	30000.	98	41683	No
12	GOM_TRA_1PNPDE20100219_013812_000000502087_00046_41683_0066.N1	19-FEB-2010 01:38:12	Dark	49.500	64	Gam Cen	2.2000	10600.	99	41683	No
13	GOM_TRA_1PNPDE20100219_014202_000000482087_00046_41683_0067.N1	19-FEB-2010 01:42:02	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	41683	No
14	GOM_TRA_1PNPDE20100219_015519_000000492087_00046_41683_0068.N1	19-FEB-2010 01:55:19	Twilight	48.500	48	30Alp Hya	1.9770	4100.0	97	41683	No
15	GOM_TRA_1PNPDE20100219_022517_000000402087_00046_41683_0069.N1	19-FEB-2010 02:25:17	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	41683	No
16	GOM_TRA_1PNPDE20100219_023405_000000432087_00046_41683_0070.N1	19-FEB-2010 02:34:05	Bright	43.000	130	23Bet Dra	2.7990	5800.0	86	41683	No
17	GOM_TRA_1PNPDE20100219_023830_000000382087_00046_41683_0071.N1	19-FEB-2010 02:38:30	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	41683	No
18	GOM_TRA_1PNPDE20100219_030201_000000412087_00046_41683_0072.N1	19-FEB-2010 03:02:01	Dark	40.500	25	35Lam Sco	1.6200	28000.	81	41683	No

19	GOM_TRA_1PNPDE20100219_030326_000000532087_00046_41683_0073.N1	19-FEB-2010 03:03:26	Dark	53.000	75	26Eps Sco	2.2910	4250.0	106	41683	No
20	GOM_TRA_1PNPDE20100219_031239_000000432087_00047_41684_0074.N1	19-FEB-2010 03:12:39	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	41684	No
21	GOM_TRA_1PNPDE20100219_031358_000000422087_00047_41684_0075.N1	19-FEB-2010 03:13:58	Dark	42.000	10	Bet Cen	0.610000	28000.	84	41684	No
22	GOM_TRA_1PNPDE20100219_031527_000000432087_00047_41684_0076.N1	19-FEB-2010 03:15:27	Dark	42.500	77	Eps Cen	2.3030	28000.	85	41684	No
23	GOM_TRA_1PNPDE20100219_031656_000000462087_00047_41684_0077.N1	19-FEB-2010 03:16:56	Dark	46.000	12	Alp1Cru	0.77500	30000.	92	41684	No
24	GOM_TRA_1PNPDE20100219_031849_000000452087_00047_41684_0078.N1	19-FEB-2010 03:18:49	Dark	45.000	64	Gam Cen	2.2000	10600.	90	41684	No
25	GOM_TRA_1PNPDE20100219_032238_000000462087_00047_41684_0079.N1	19-FEB-2010 03:22:38	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	41684	No
26	GOM_TRA_1PNPDE20100219_033555_000000492087_00047_41684_0080.N1	19-FEB-2010 03:35:55	Twilight	49.000	48	30Alp Hya	1.9770	4100.0	98	41684	No
27	GOM_TRA_1PNPDE20100219_040553_000000382087_00047_41684_0093.N1	19-FEB-2010 04:05:53	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	41684	No
28	GOM_TRA_1PNPDE20100219_041440_000000442087_00047_41684_0094.N1	19-FEB-2010 04:14:40	Bright	44.000	130	23Bet Dra	2.7990	5800.0	88	41684	No
29	GOM_TRA_1PNPDE20100219_041906_000000372087_00047_41684_0095.N1	19-FEB-2010 04:19:06	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	41684	No
30	GOM_TRA_1PNPDE20100219_044237_000000462087_00047_41684_0096.N1	19-FEB-2010 04:42:37	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	41684	No
31	GOM_TRA_1PNPDE20100219_044403_000000532087_00047_41684_0097.N1	19-FEB-2010 04:44:03	Dark	52.500	75	26Eps Sco	2.2910	4250.0	105	41684	No
32	GOM_TRA_1PNPDE20100219_045315_000000432087_00048_41685_0098.N1	19-FEB-2010 04:53:15	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	41685	No
33	GOM_TRA_1PNPDE20100219_045435_000000422087_00048_41685_0099.N1	19-FEB-2010 04:54:35	Dark	41.500	10	Bet Cen	0.610000	28000.	83	41685	No
34	GOM_TRA_1PNPDE20100219_045604_000000432087_00048_41685_0100.N1	19-FEB-2010 04:56:04	Dark	43.000	77	Eps Cen	2.3030	28000.	86	41685	No
35	GOM_TRA_1PNPDE20100219_045732_000000442087_00048_41685_0101.N1	19-FEB-2010 04:57:32	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	41685	No
36	GOM_TRA_1PNPDE20100219_045926_000000512087_00048_41685_0102.N1	19-FEB-2010 04:59:26	Dark	51.000	64	Gam Cen	2.2000	10600.	102	41685	No
37	GOM_TRA_1PNPDE20100219_050315_000000452087_00048_41685_0103.N1	19-FEB-2010 05:03:15	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	41685	No
38	GOM_TRA_1PNPDE20100219_051631_000000482087_00048_41685_0104.N1	19-FEB-2010 05:16:31	Twilight	47.500	48	30Alp Hya	1.9770	4100.0	95	41685	No
39	GOM_TRA_1PNPDE20100219_054629_000000412087_00048_41685_0105.N1	19-FEB-2010 05:46:29	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	41685	No
40	GOM_TRA_1PNPDE20100219_201209_000000442087_00057_41694_0202.N1	19-FEB-2010 20:12:09	Straylight	44.000	65	Lam Vel	2.2040	4400.0	88	41694	No
41	GOM_TRA_1PNPDE20100219_202155_000000462087_00057_41694_0203.N1	19-FEB-2010 20:21:55	Twilight	45.500	48	30Alp Hya	1.9770	4100.0	91	41694	No
42	GOM_TRA_1PNPDE20100219_205004_000000332087_00057_41694_0204.N1	19-FEB-2010 20:50:04	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	41694	No
43	GOM_TRA_1PNPDE20100219_205149_000000372087_00057_41694_0205.N1	19-FEB-2010 20:51:49	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	41694	No
44	GOM_TRA_1PNPDE20100219_210038_000000452087_00057_41694_0206.N1	19-FEB-2010 21:00:38	Bright	44.500	130	23Bet Dra	2.7990	5800.0	89	41694	No
45	GOM_TRA_1PNPDE20100219_210506_000000372087_00057_41694_0207.N1	19-FEB-2010 21:05:06	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	41694	No
46	GOM_TRA_1PNPDE20100219_211212_000000352087_00057_41694_0208.N1	19-FEB-2010 21:12:12	Bright	35.000	168	17Zet Aql	2.9860	11000.	70	41694	No
47	GOM_TRA_1PNPDE20100219_212147_000000422087_00057_41694_0220.N1	19-FEB-2010 21:21:47	Twilight	42.000	155	41Pi Sgr	2.9000	6600.0	84	41694	No
48	GOM_TRA_1PNPDE20100219_212330_000000422087_00057_41694_0221.N1	19-FEB-2010 21:23:30	Dark	42.000	57	34Sig Sgr	2.0660	26000.	84	41694	No
49	GOM_TRA_1PNPDE20100219_212843_000000462087_00057_41694_0222.N1	19-FEB-2010 21:28:43	Dark	45.500	25	35Lam Sco	1.6200	28000.	91	41694	No
50	GOM_TRA_1PNPDE20100219_213012_000000562087_00057_41694_0223.N1	19-FEB-2010 21:30:12	Dark	55.500	75	26Eps Sco	2.2910	4250.0	111	41694	No
51	GOM_TRA_1PNPDE20100219_213301_000000502087_00057_41694_0224.N1	19-FEB-2010 21:33:01	Dark	50.000	141	Bet Ara	2.8400	4600.0	100	41694	No
52	GOM_TRA_1PNPDE20100219_213921_000000432087_00058_41695_0225.N1	19-FEB-2010 21:39:21	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	41695	No
53	GOM_TRA_1PNPDE20100219_214040_000000422087_00058_41695_0226.N1	19-FEB-2010 21:40:40	Dark	42.000	10	Bet Cen	0.610000	28000.	84	41695	No
54	GOM_TRA_1PNPDE20100219_214336_000000452087_00058_41695_0227.N1	19-FEB-2010 21:43:36	Dark	44.500	12	Alp1Cru	0.77500	30000.	89	41695	No
55	GOM_TRA_1PNPDE20100219_214532_000000452087_00058_41695_0228.N1	19-FEB-2010 21:45:32	Dark	44.500	64	Gam Cen	2.2000	10600.	89	41695	No
56	GOM_TRA_1PNPDE20100219_215246_000000452087_00058_41695_0229.N1	19-FEB-2010 21:52:46	Straylight	45.000	65	Lam Vel	2.2040	4400.0	90	41695	No
57	GOM_TRA_1PNPDE20100219_220231_000000492087_00058_41695_0230.N1	19-FEB-2010 22:02:31	Twilight	49.000	48	30Alp Hya	1.9770	4100.0	98	41695	No
58	GOM_TRA_1PNPDE20100219_223040_000000522087_00058_41695_0231.N1	19-FEB-2010 22:30:40	Bright	52.000	49	1Alp UMi	1.9900	6300.0	104	41695	No
59	GOM_TRA_1PNPDE20100219_223225_000000452087_00058_41695_0232.N1	19-FEB-2010 22:32:25	Bright	45.000	60	7Bet UMi	2.0810	3950.0	90	41695	No
60	GOM_TRA_1PNPDE20100219_224114_000000462087_00058_41695_0233.N1	19-FEB-2010 22:41:14	Bright	45.500	130	23Bet Dra	2.7990	5800.0	91	41695	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

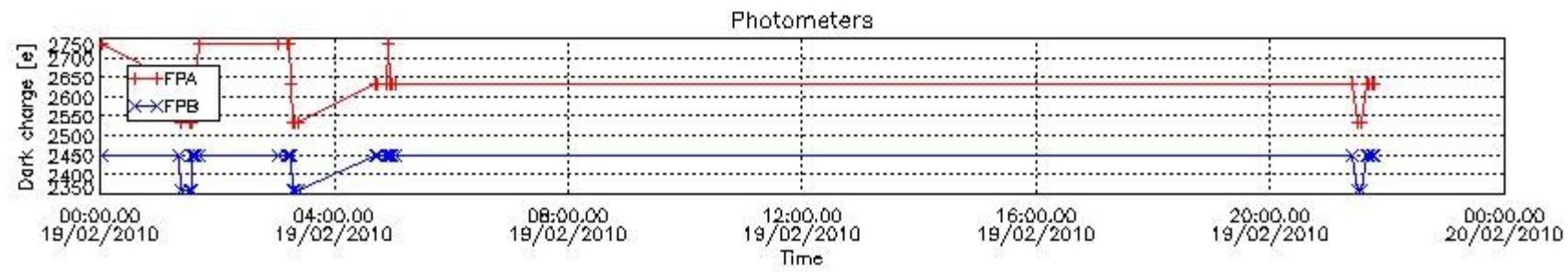
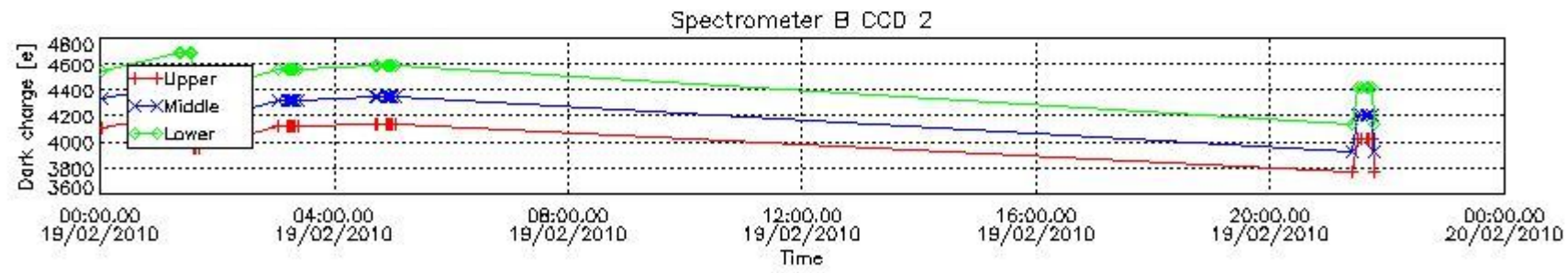
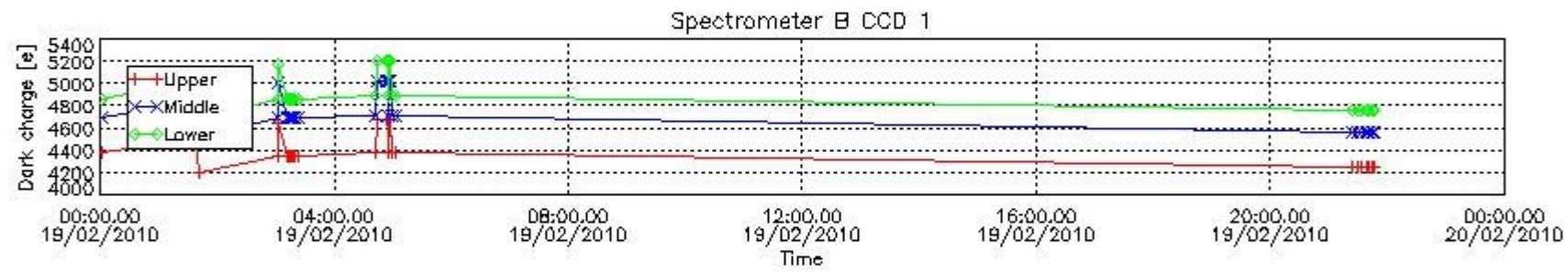
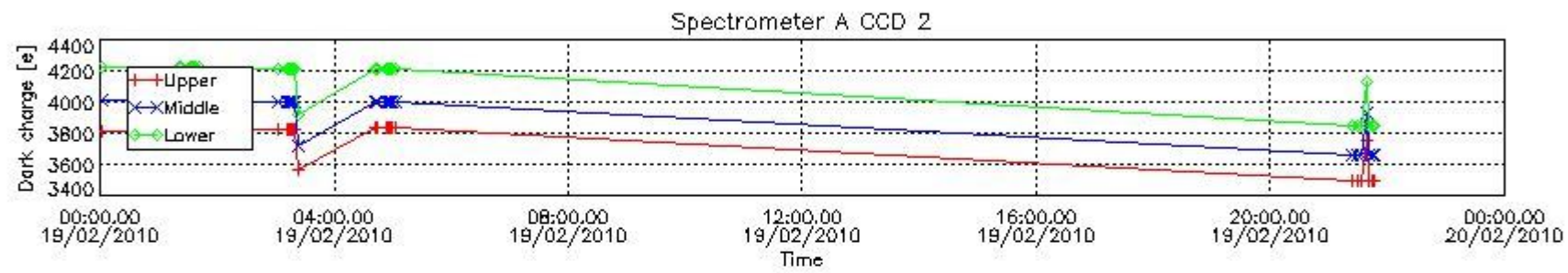
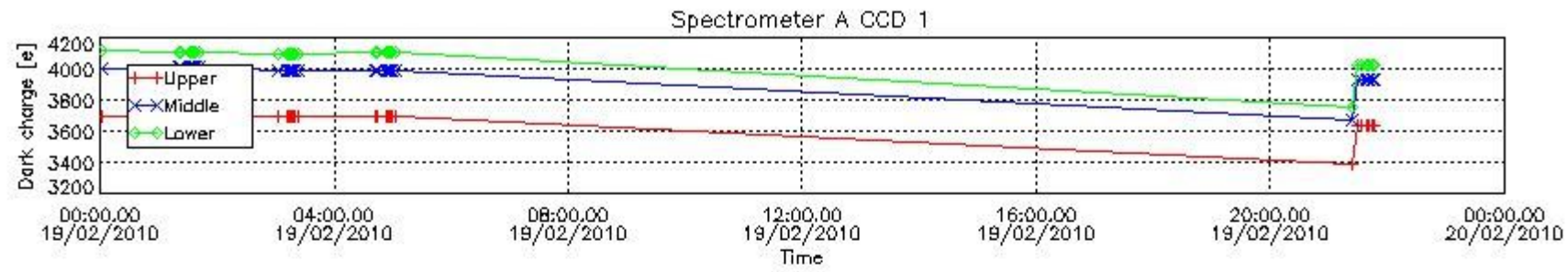
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20100219_201209_000000442087_00057_41694_0202.N1	DC map used
GOM_TRA_1PNPDE20100219_202155_000000462087_00057_41694_0203.N1	DC map used
GOM_TRA_1PNPDE20100219_205004_000000332087_00057_41694_0204.N1	DC map used
GOM_TRA_1PNPDE20100219_205149_000000372087_00057_41694_0205.N1	DC map used
GOM_TRA_1PNPDE20100219_210038_000000452087_00057_41694_0206.N1	DC map used
GOM_TRA_1PNPDE20100219_210506_000000372087_00057_41694_0207.N1	DC map used
GOM_TRA_1PNPDE20100219_211212_000000352087_00057_41694_0208.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



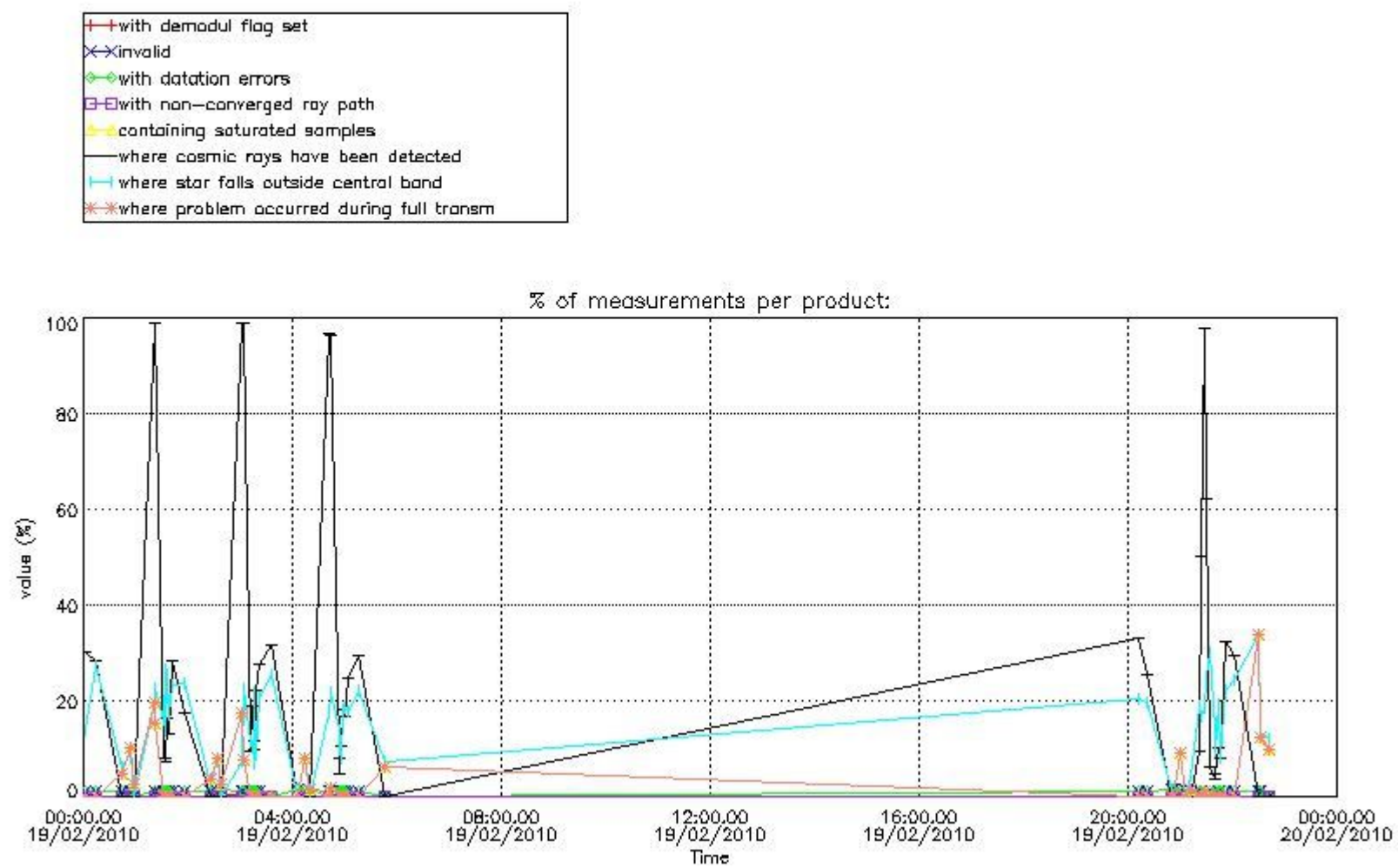
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

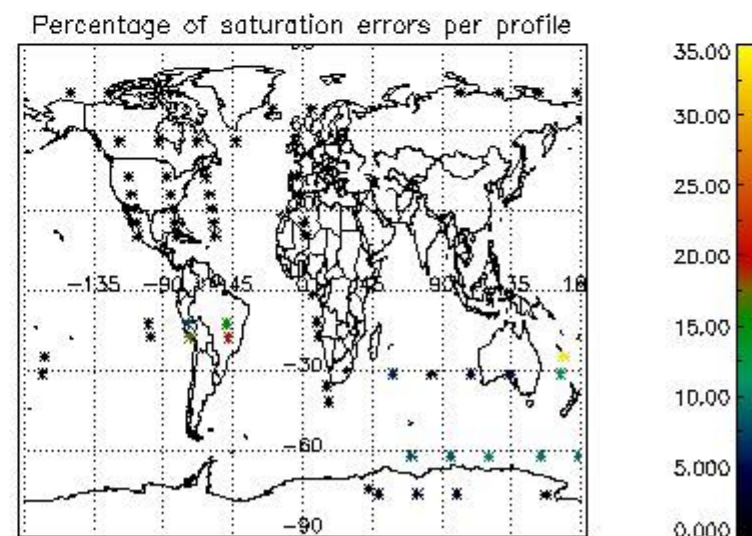
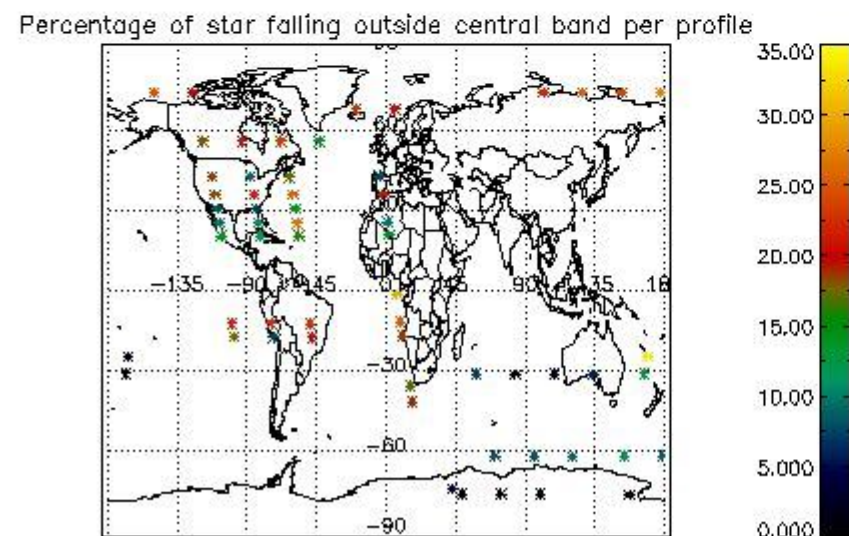
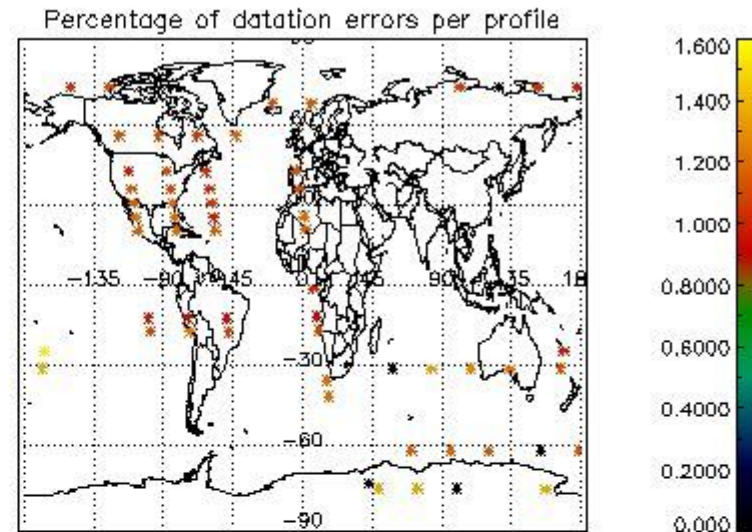
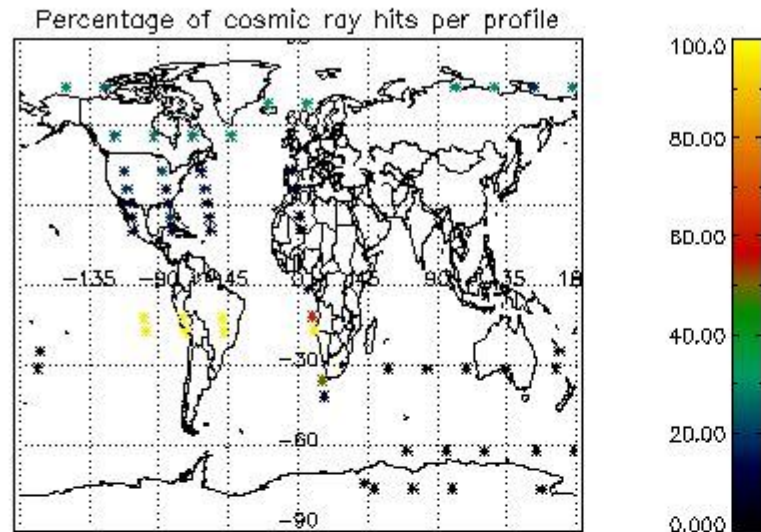
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



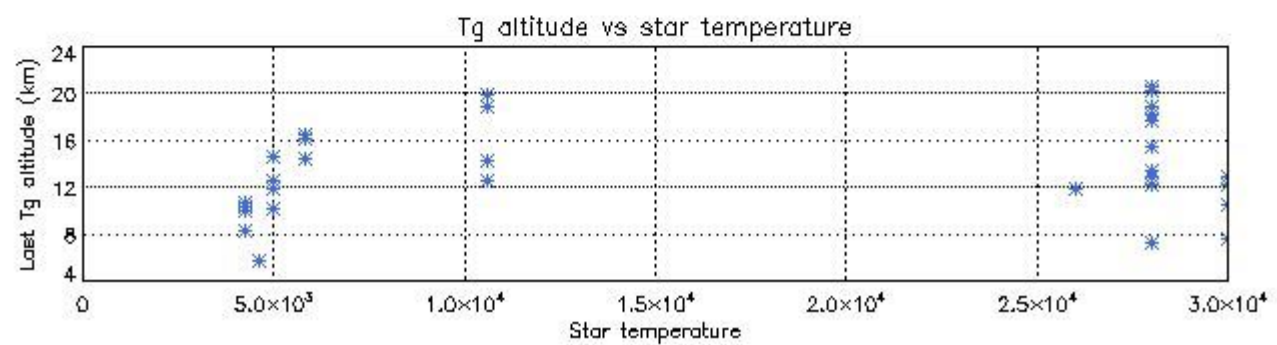
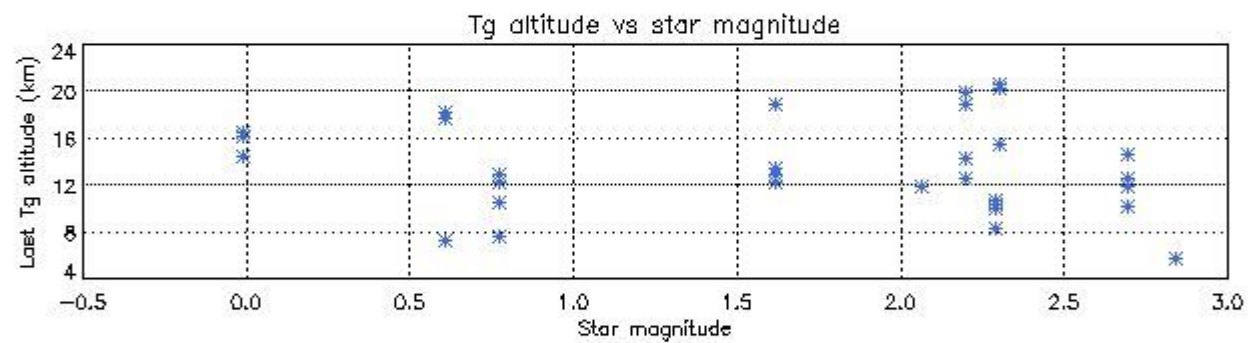
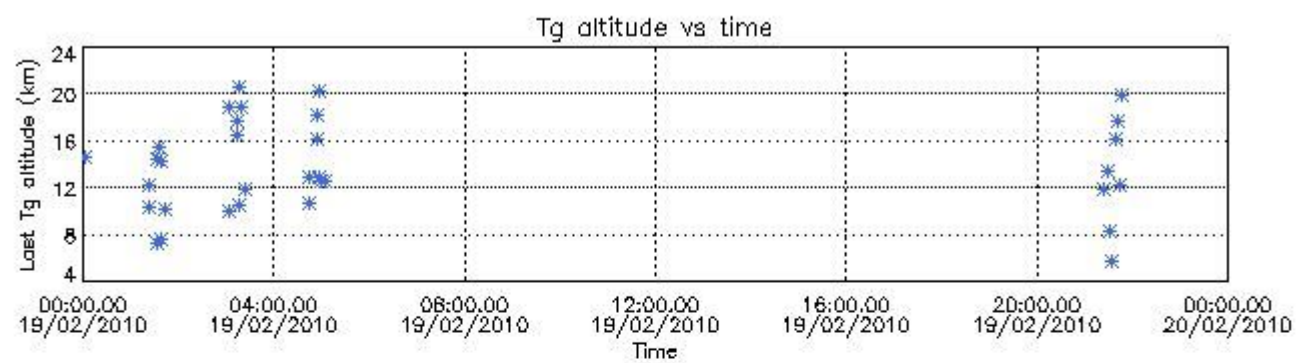
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.713	20.676	11.426
St. deviation:	3.9733	5.7313	0.0000
Maximum:	20.642	29.199	11.426
Minimum:	5.6321	3.6517	11.426
Number of data:	33.000	18.000	1.0000

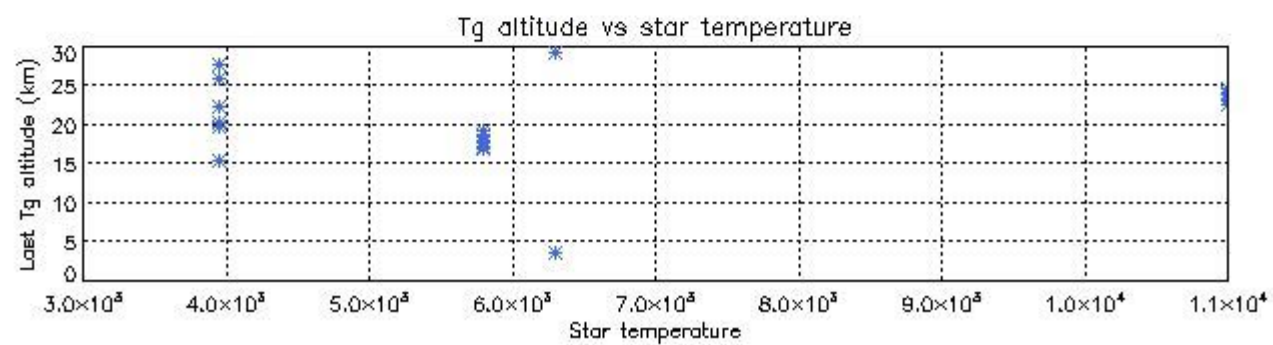
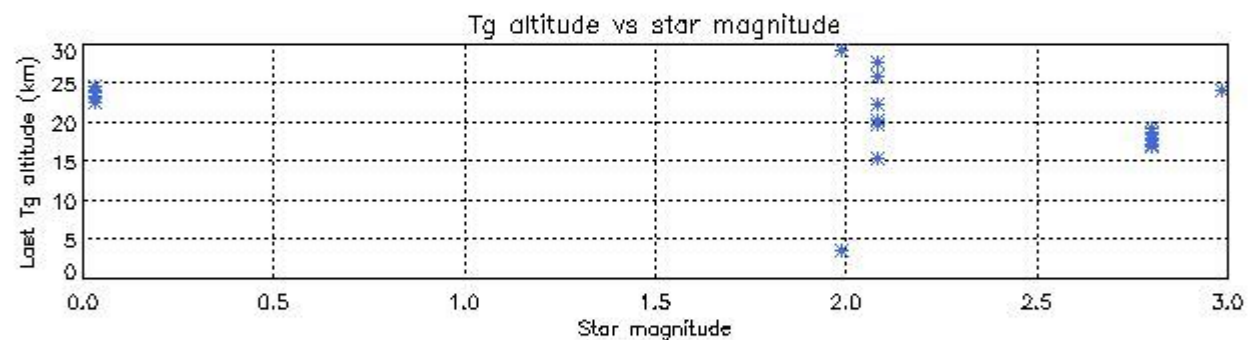
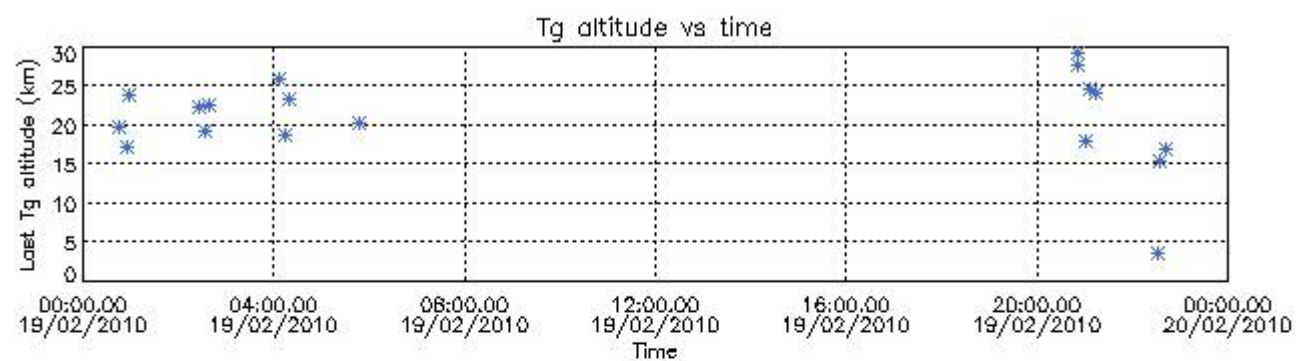
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



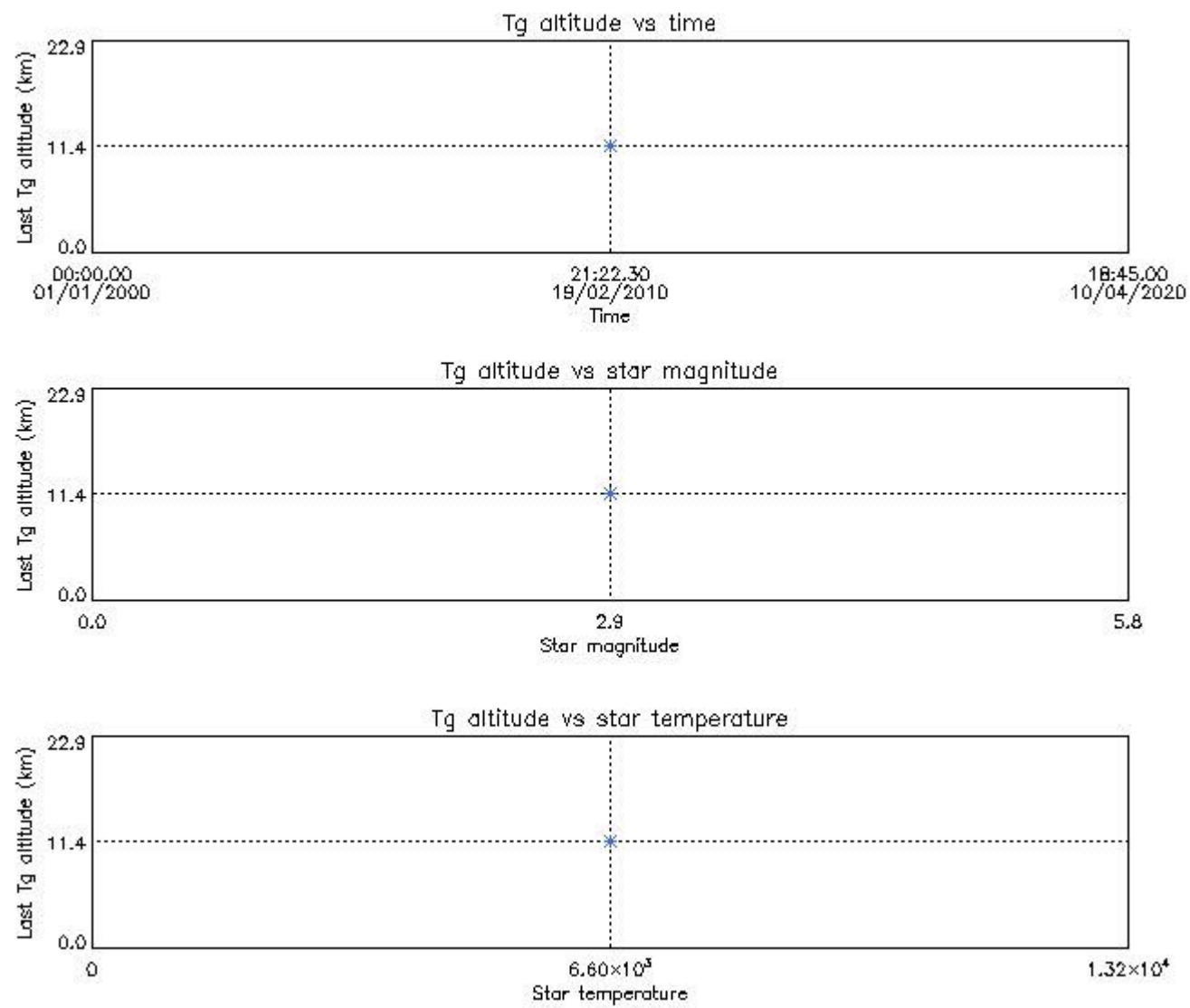
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

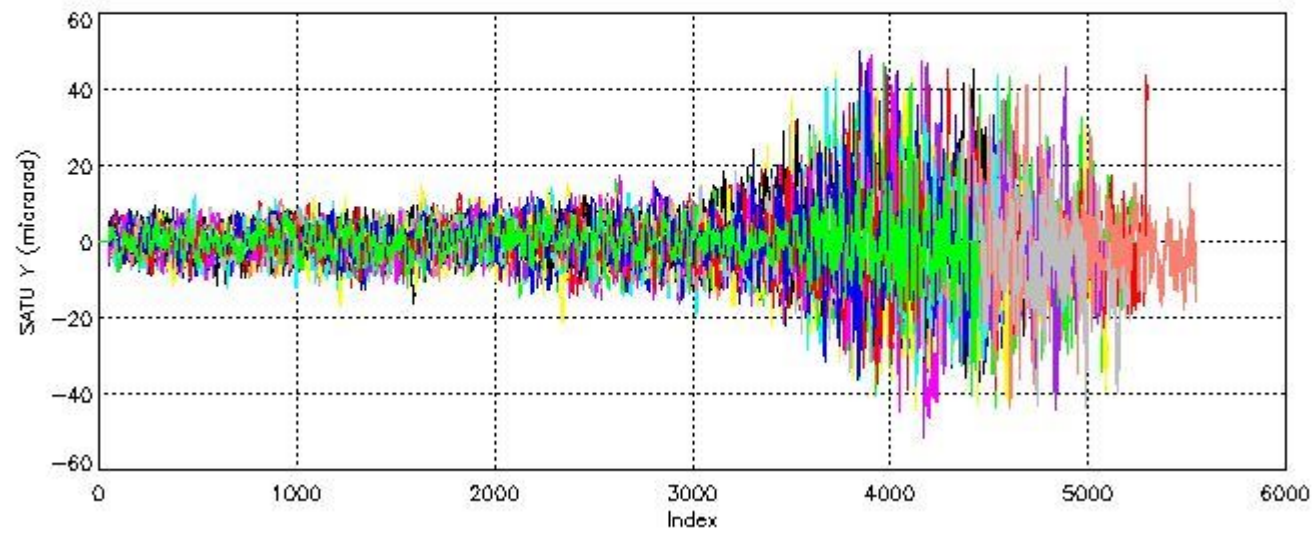
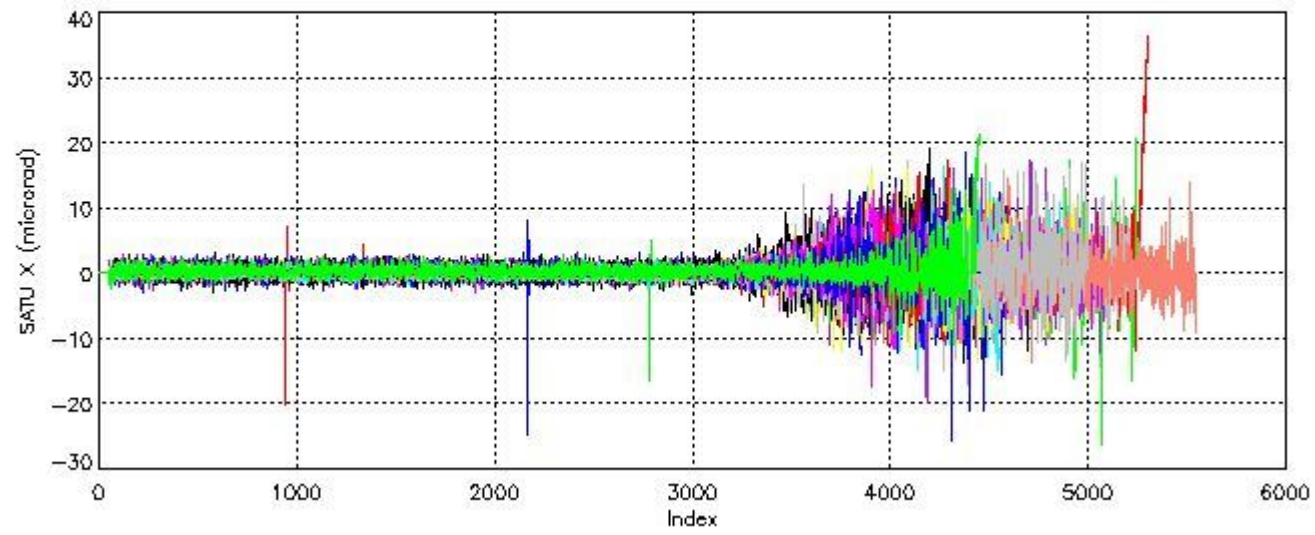


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.18746	0.098699	0.13621	-0.18068
St. deviation:	0.46541	2.9684	0.50666	3.1190
Maximum:	7.0000	12.100	5.1000	11.800
Minimum:	-20.100	-11.900	-4.4000	-12.200

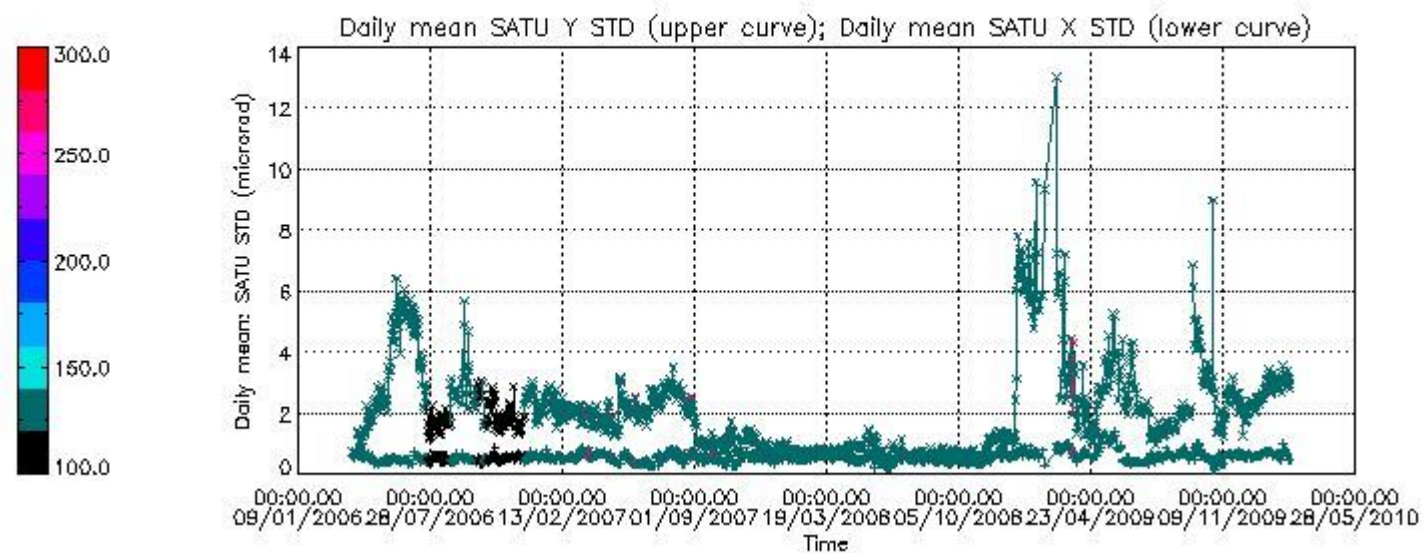
Number of data:	31800.	31800.	16950.	16950.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

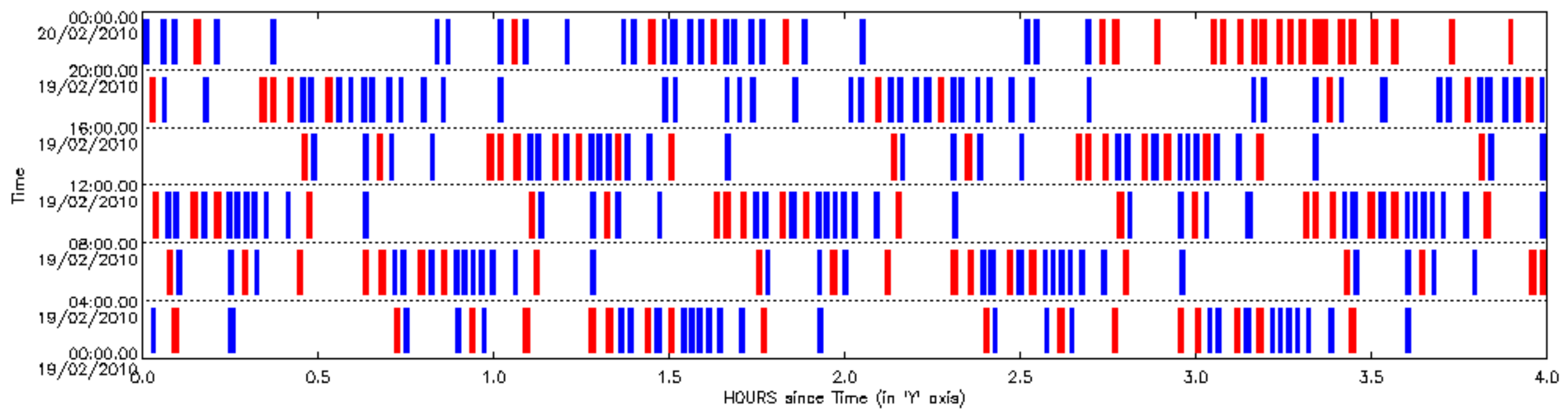
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

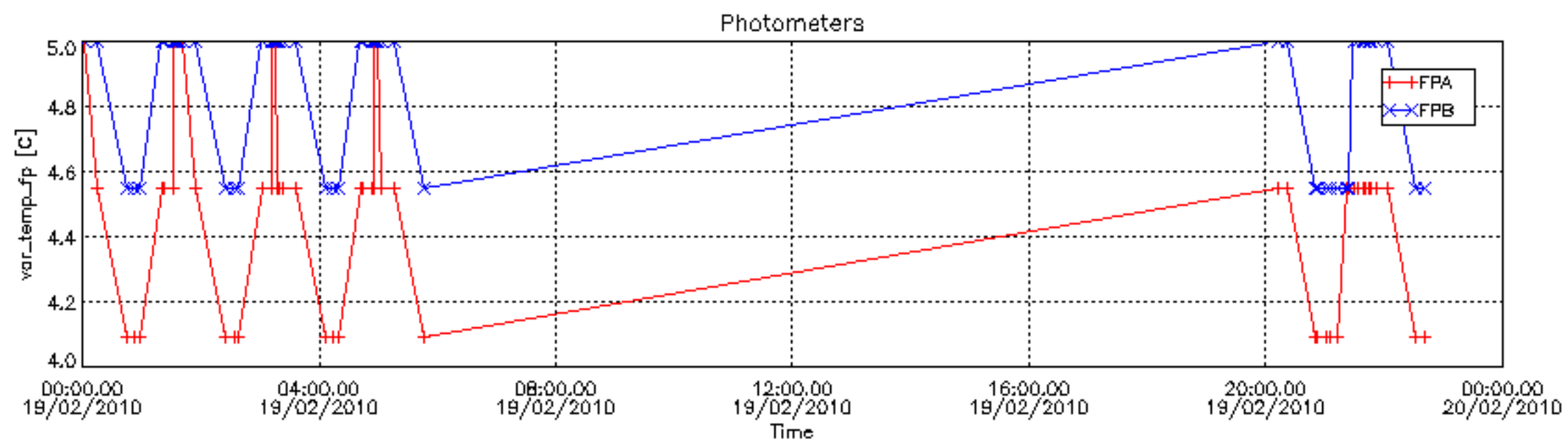
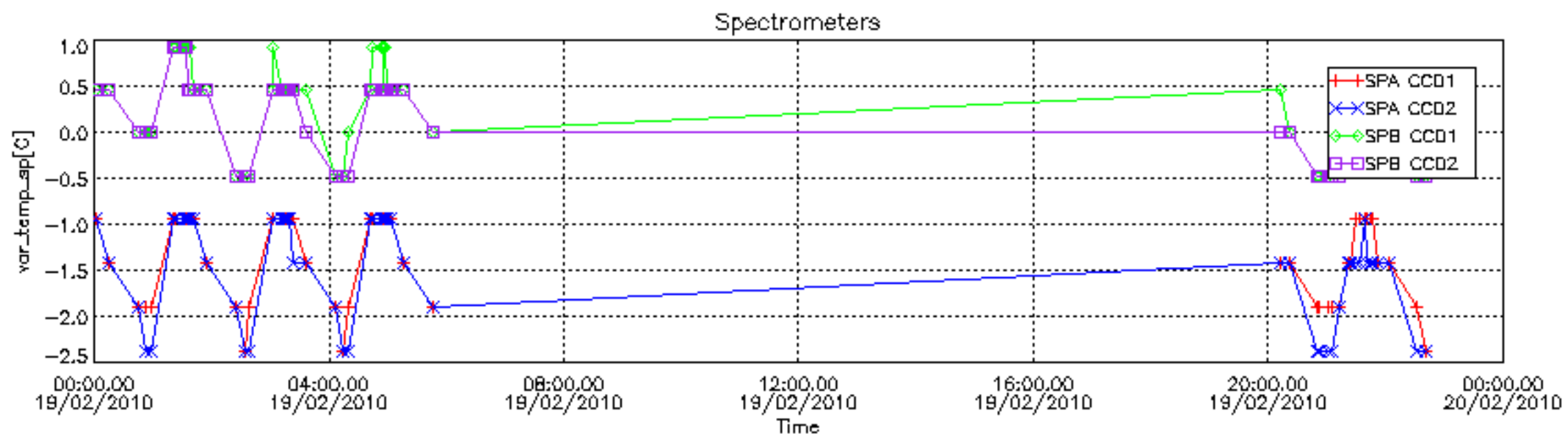


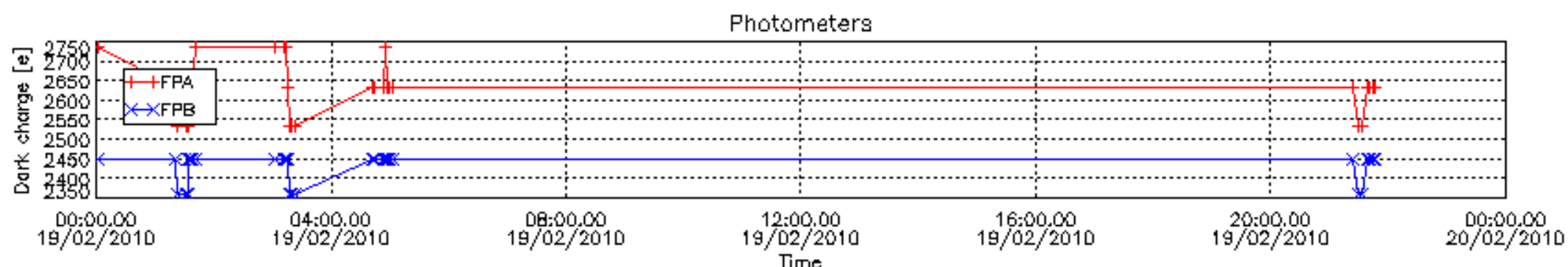
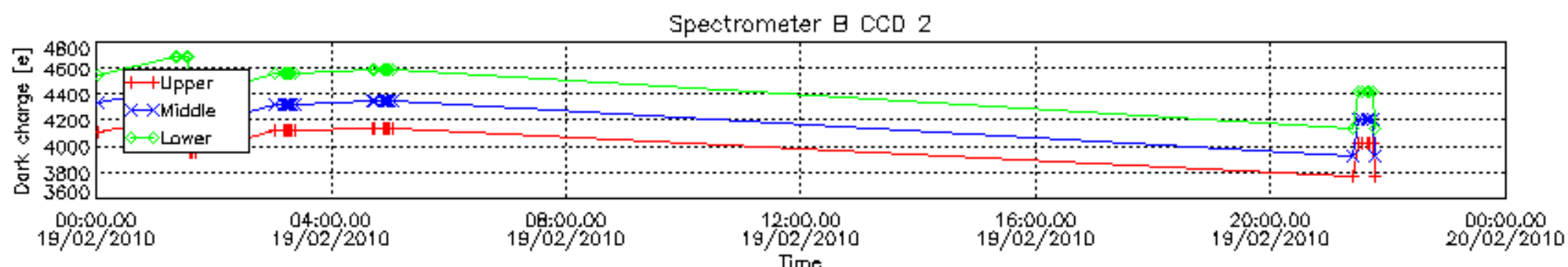
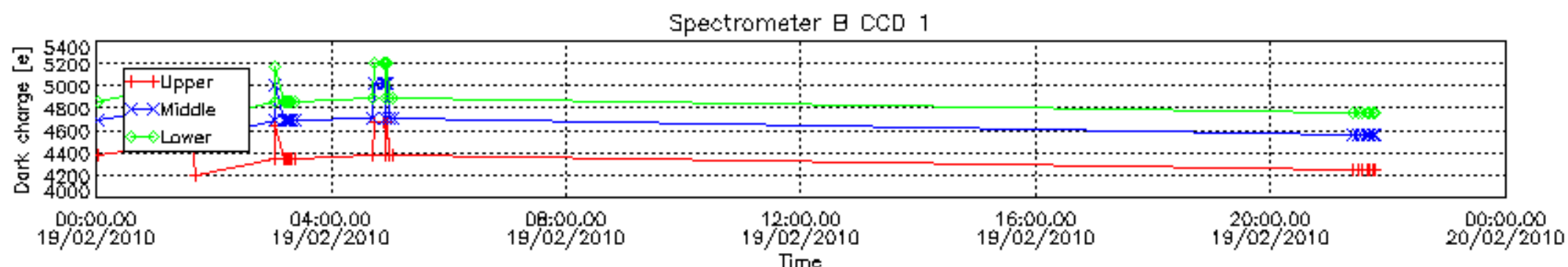
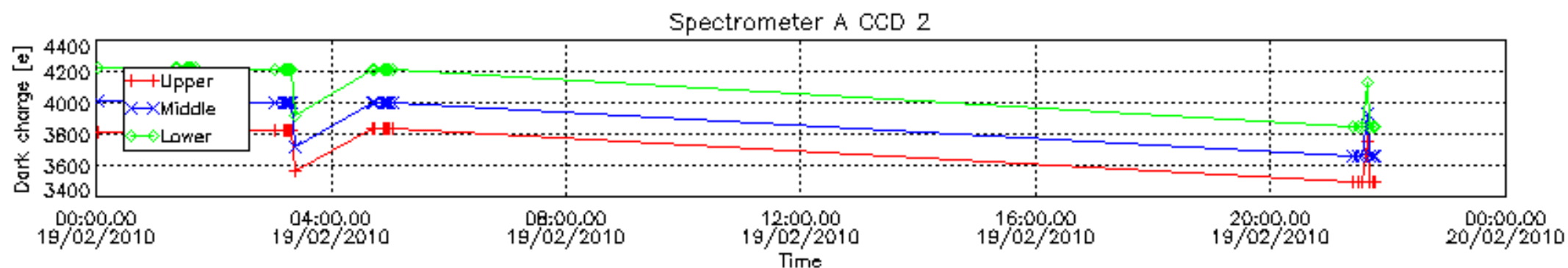
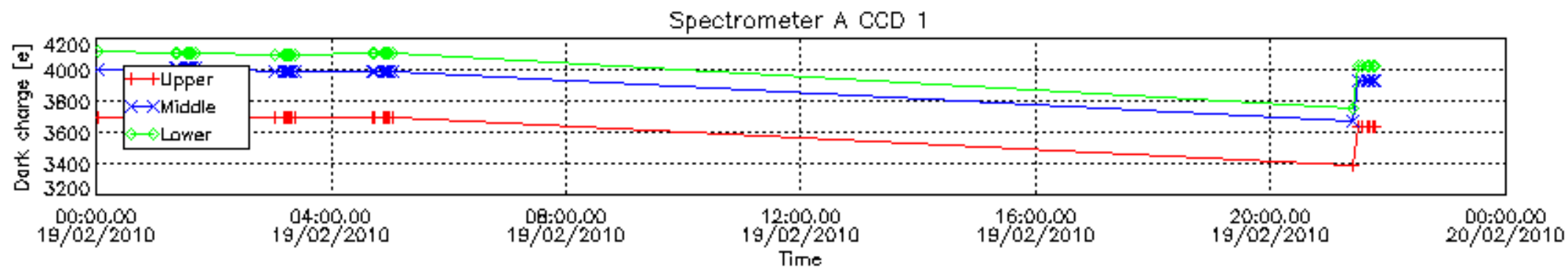
8. Auxiliary Data Files used for the production reported in section 2.4

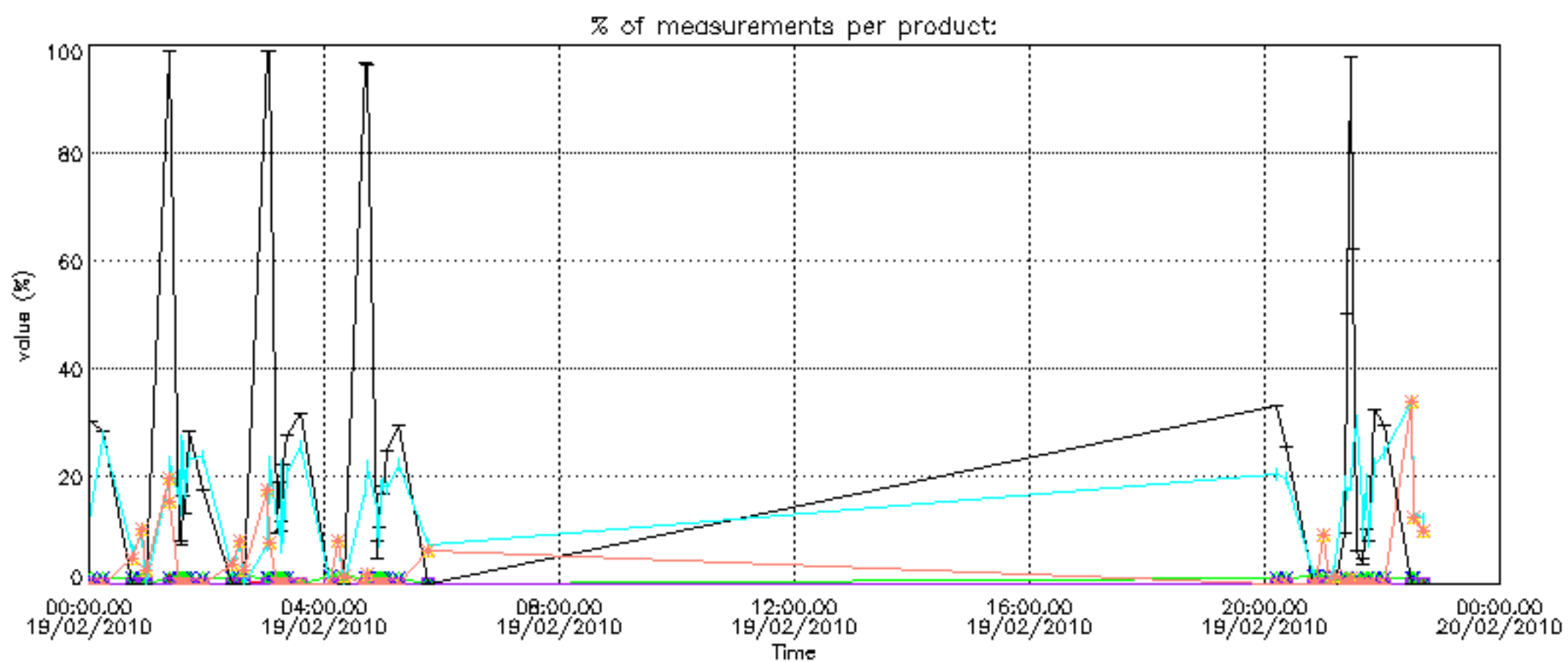
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-FEB-2010 00:01:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100216_142029_20100214_000000_20500101_000000	1	19-FEB-2010 00:01:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	19-FEB-2010 00:01:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-FEB-2010 00:01:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	19-FEB-2010 00:01:26
ECMWF_FILE	AUX_ECF_AXNECM20100218_062114_20100218_210000_20100219_090000	1	19-FEB-2010 00:01:26
ECMWF_FILE	AUX_ECF_AXNECM20100218_180116_20100219_030000_20100219_150000	27	19-FEB-2010 04:05:53
ECMWF_FILE	AUX_ECF_AXNECM20100219_062114_20100219_150000_20100220_030000	40	19-FEB-2010 20:12:09
ECMWF_FILE	AUX_ECF_AXNECM20100219_062114_20100219_210000_20100220_090000	47	19-FEB-2010 21:21:47
OPTIONAL_ECMWF_FILE	MISSING	1	19-FEB-2010 00:01:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100218_232838_000057382087_00044_41681_9788.N1	1	19-FEB-2010 00:01:26
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100218_110114_20100217_191531_20100227_204144	6	19-FEB-2010 01:21:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100219_200636_000038252087_00057_41694_9791.N1	40	19-FEB-2010 20:12:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100219_211540_000057382087_00057_41694_9792.N1	47	19-FEB-2010 21:21:47

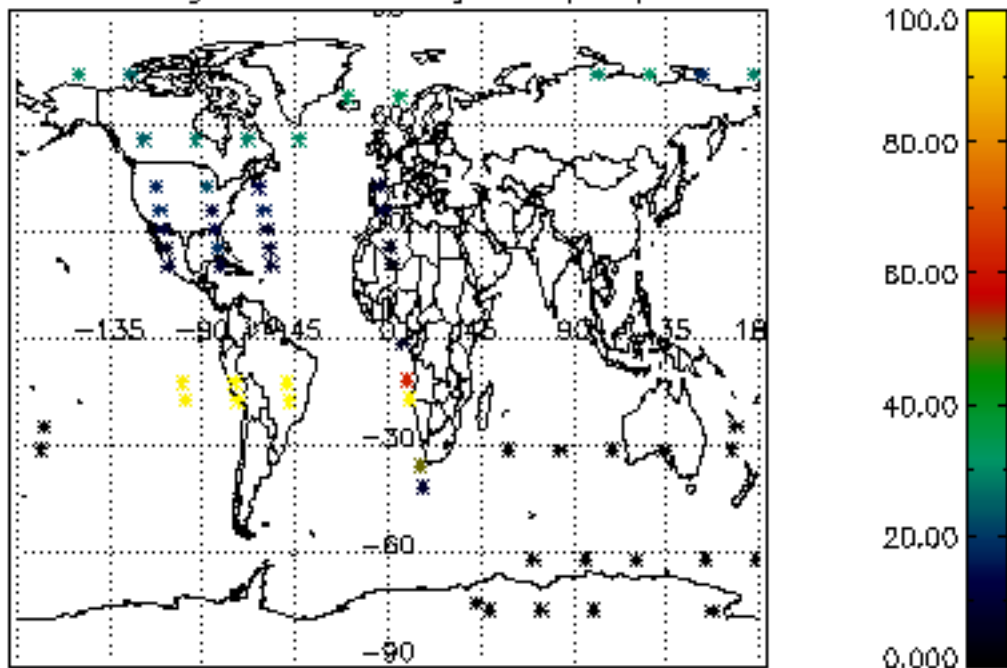




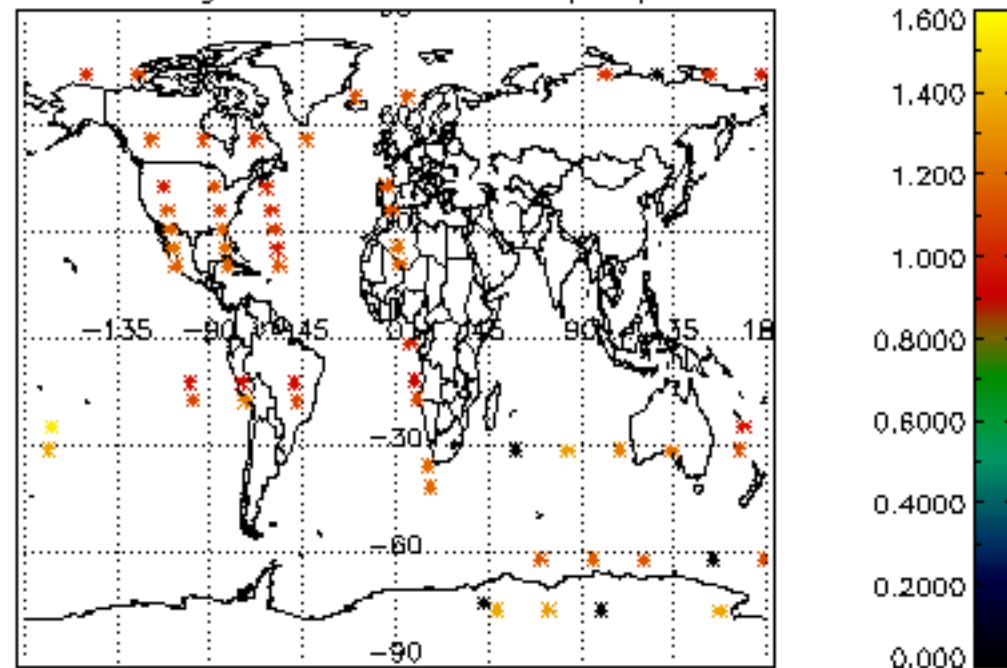




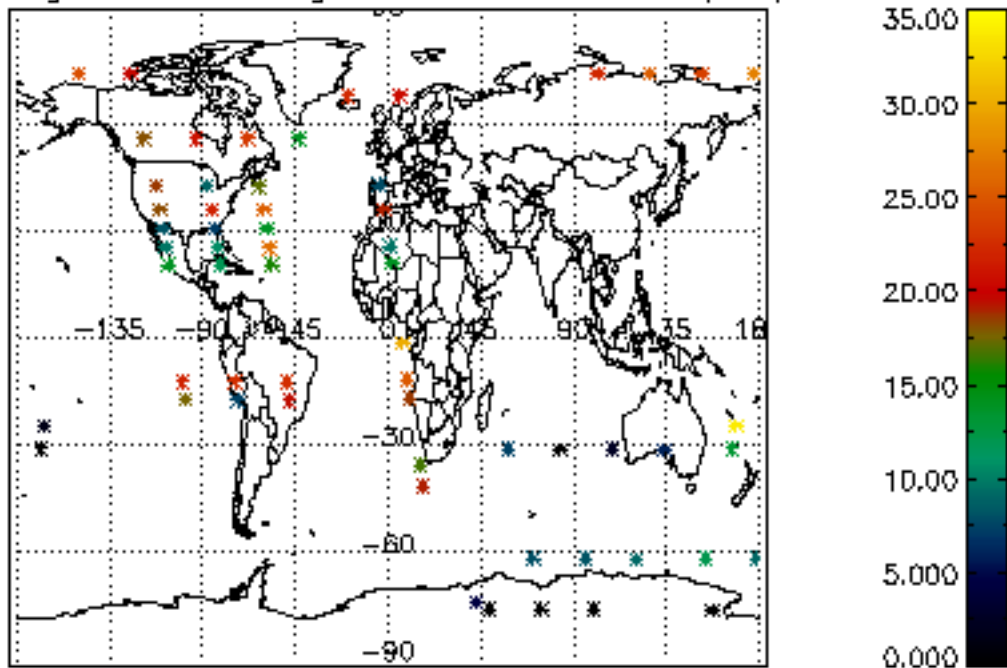
Percentage of cosmic ray hits per profile



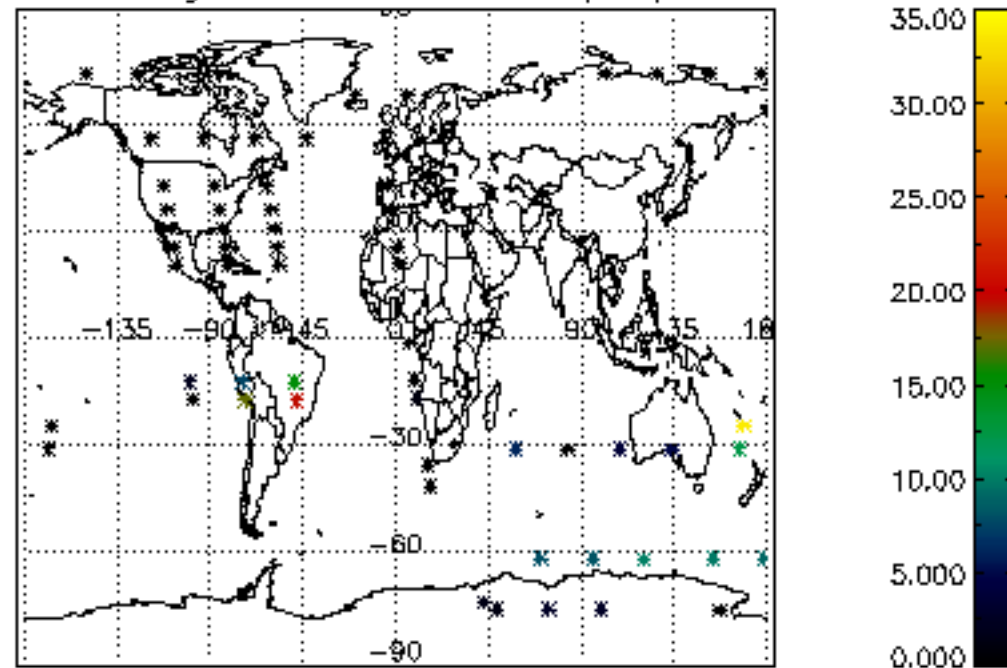
Percentage of datation errors per profile



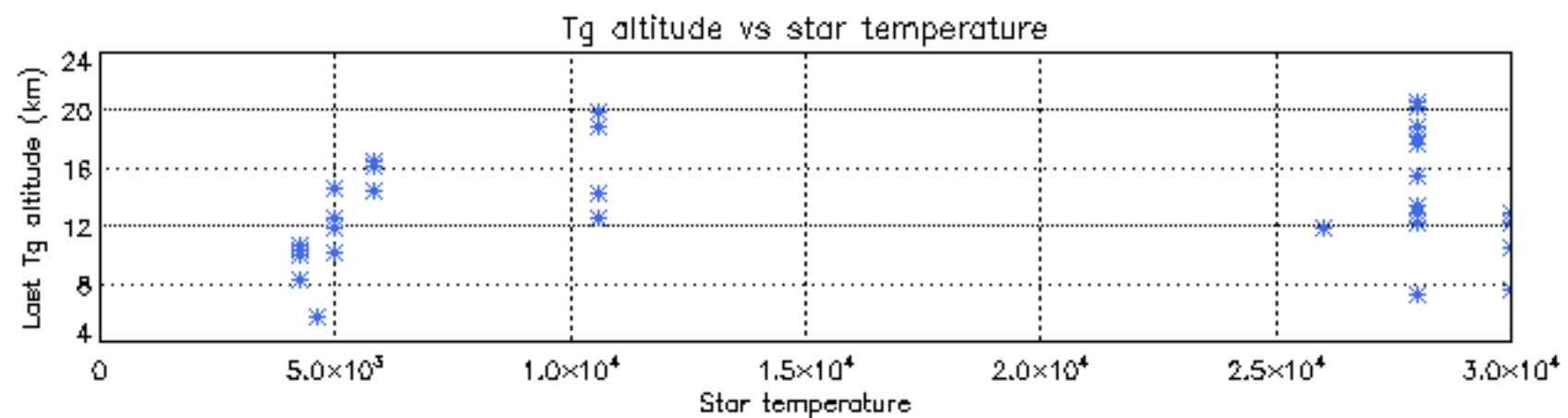
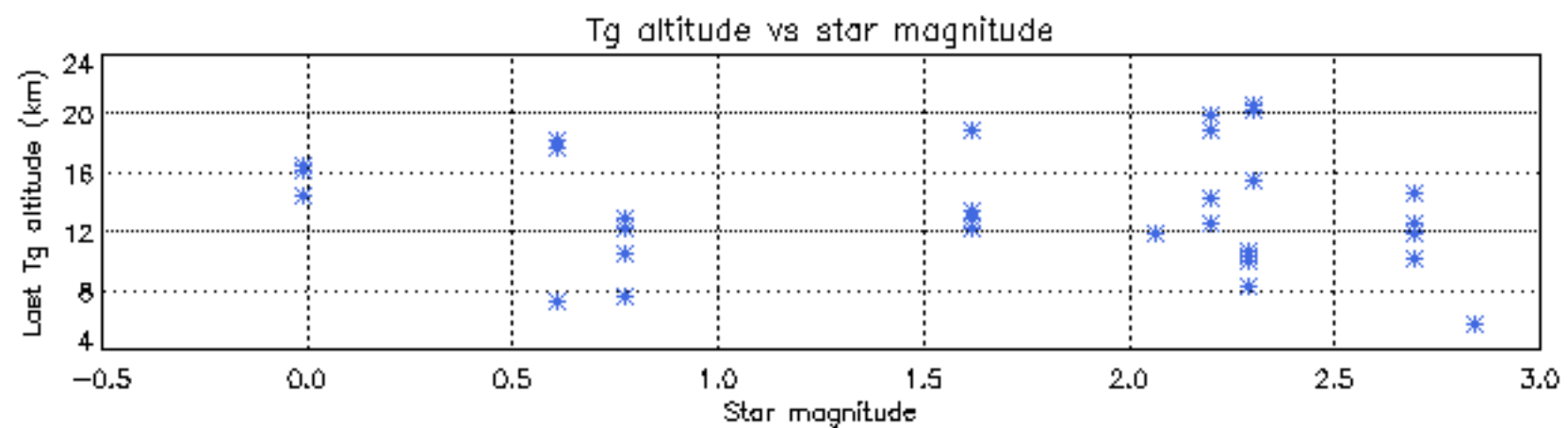
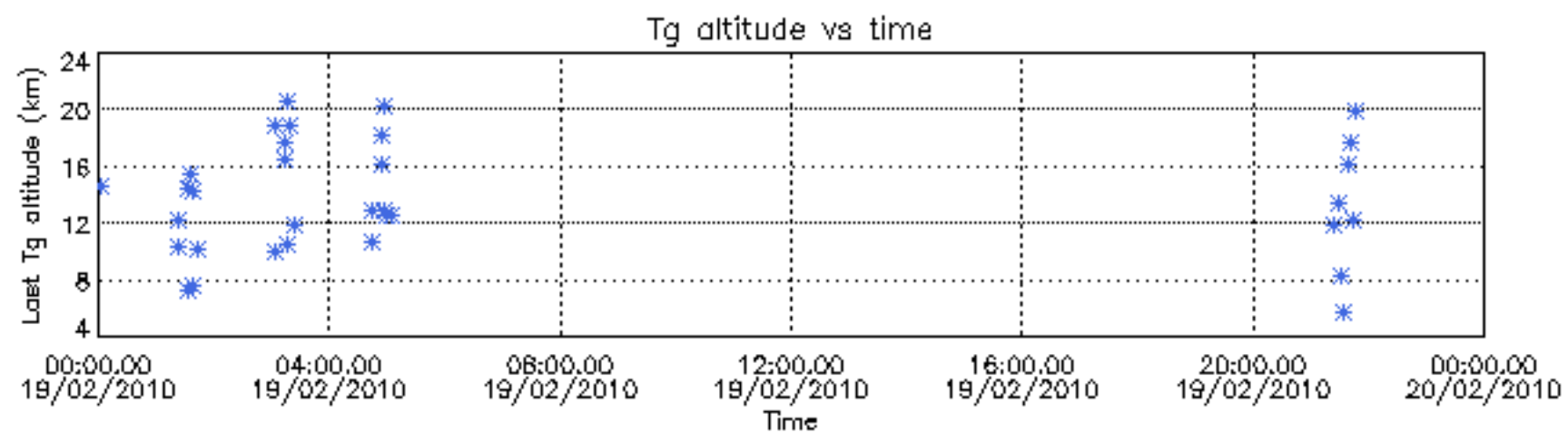
Percentage of star falling outside central band per profile



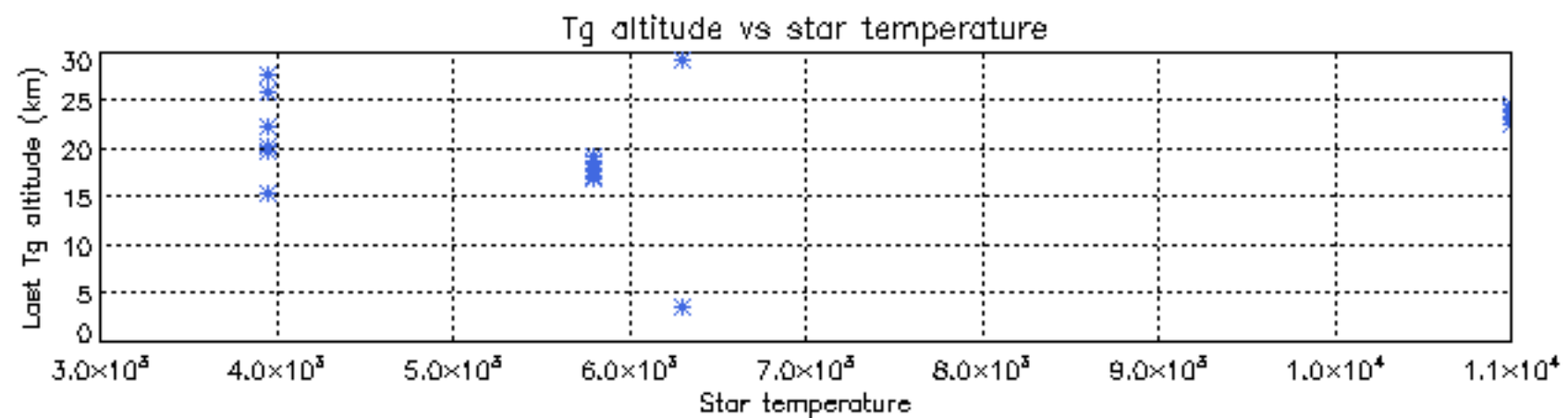
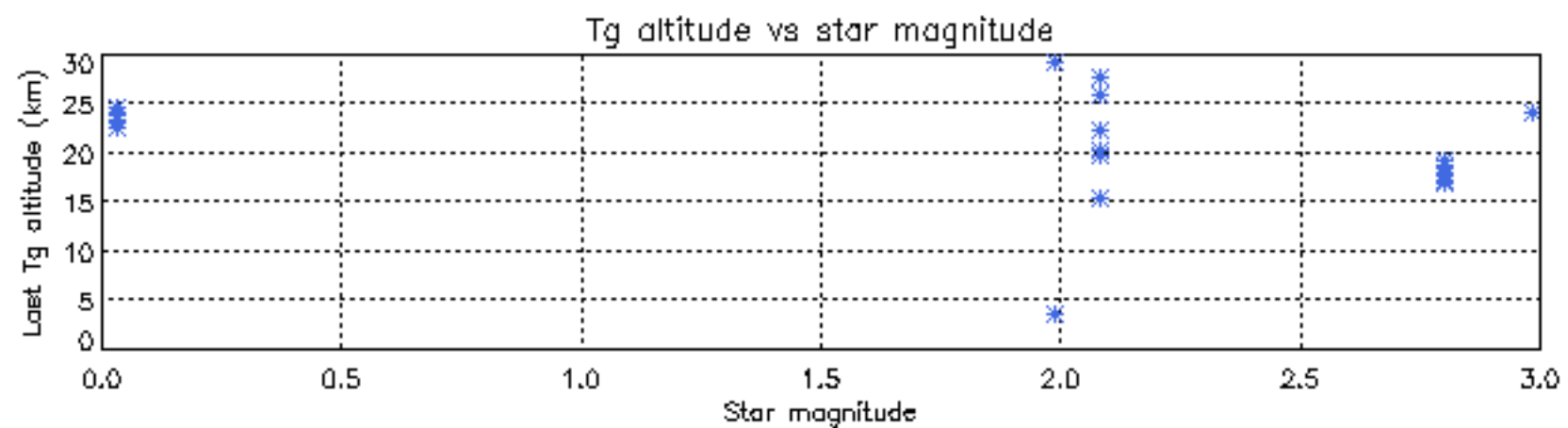
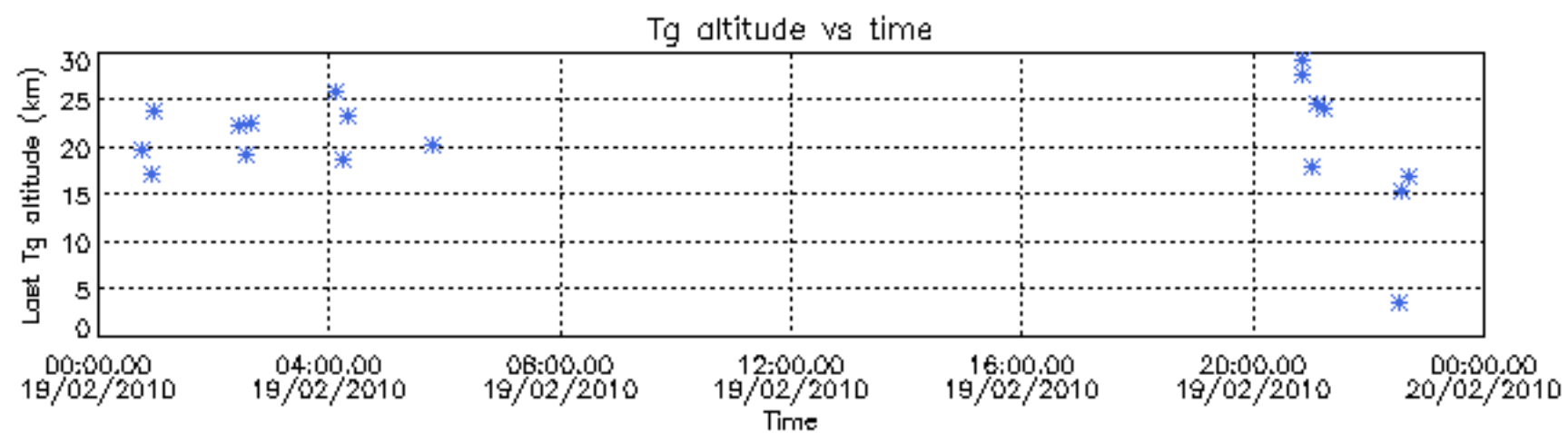
Percentage of saturation errors per profile



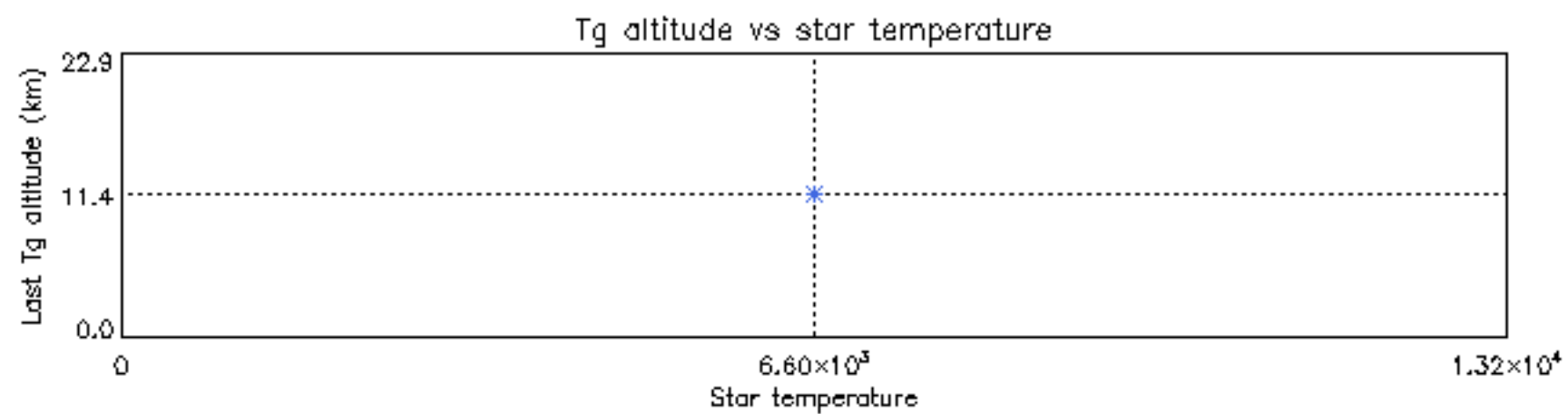
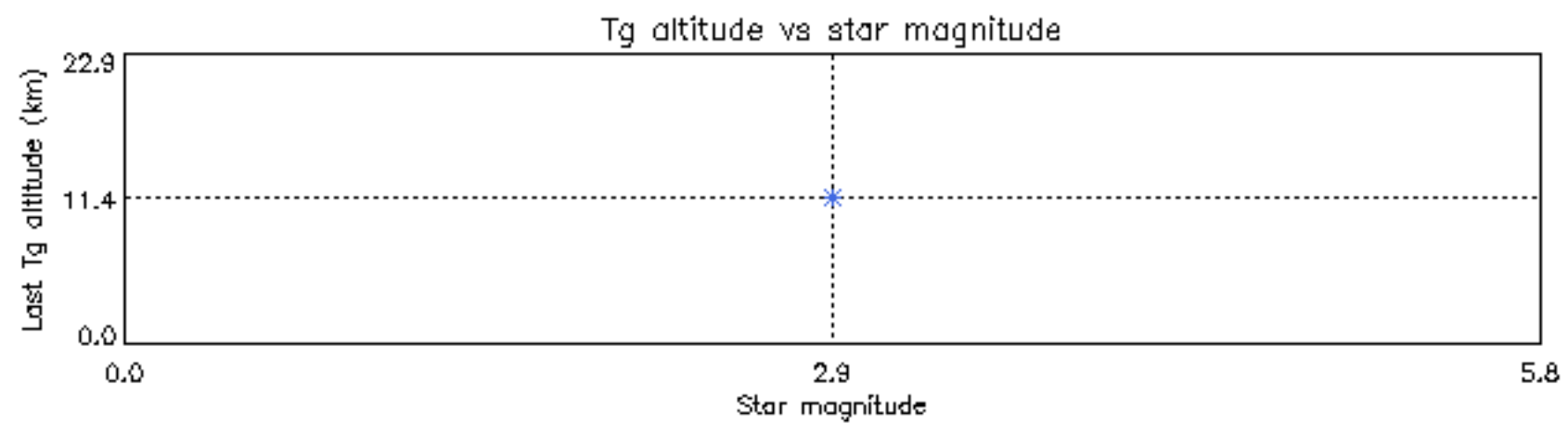
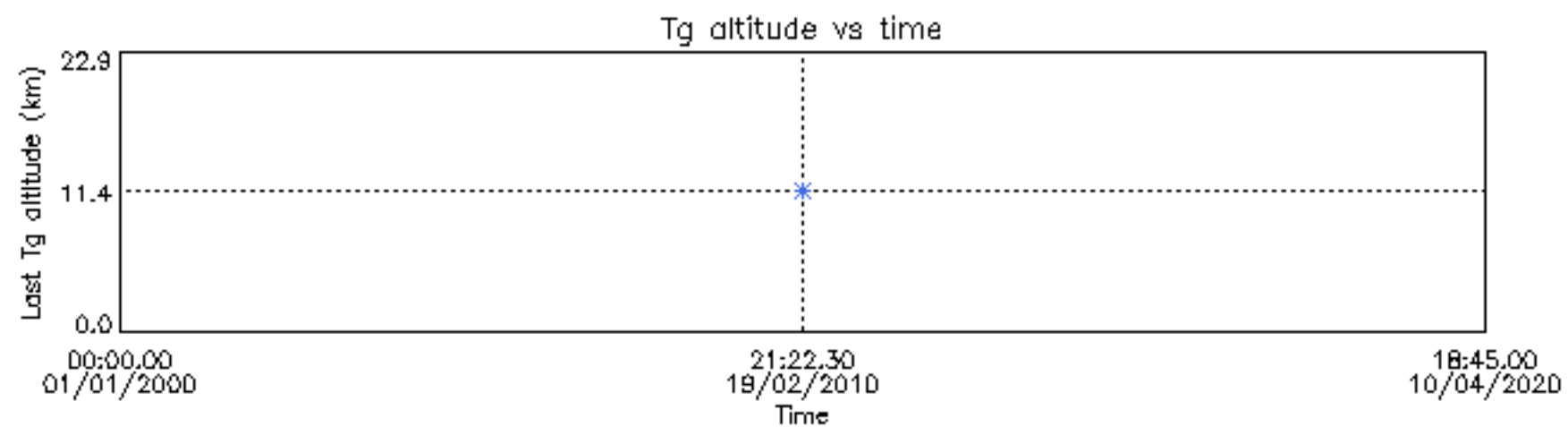
Tangent altitude at which the star is lost

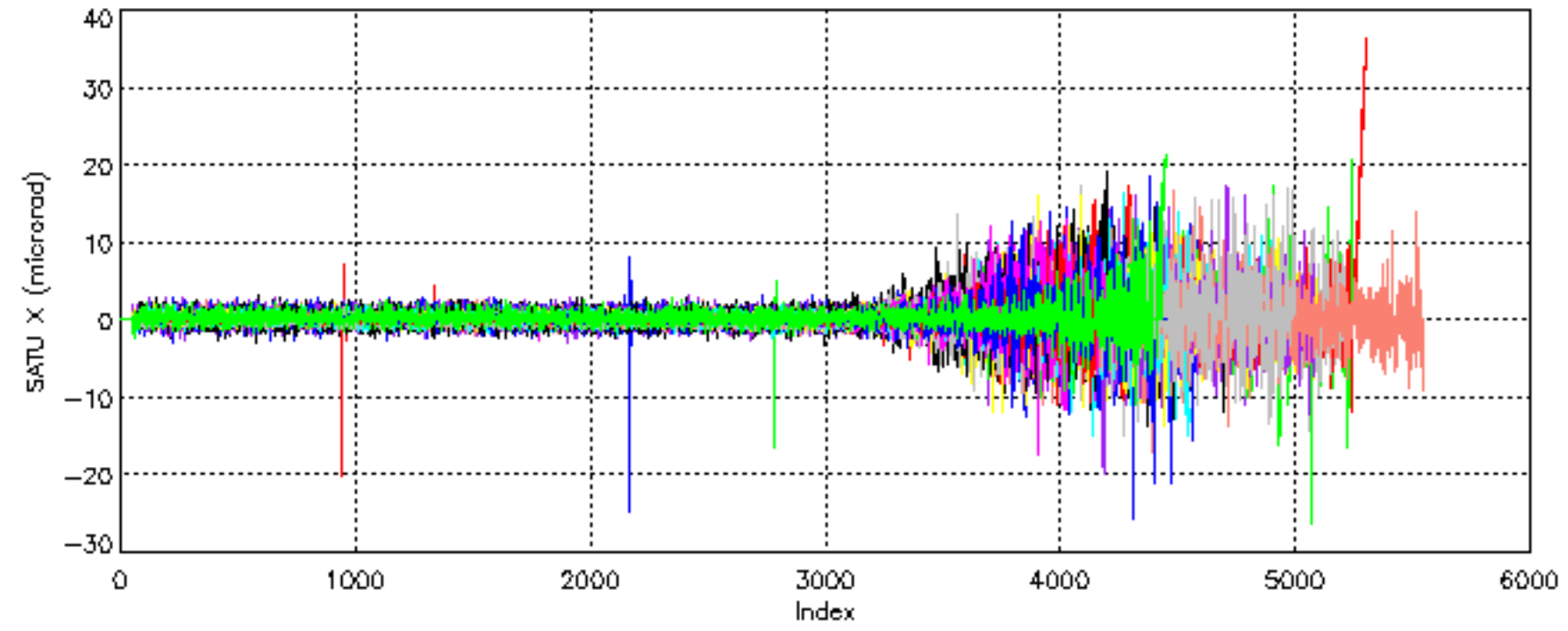


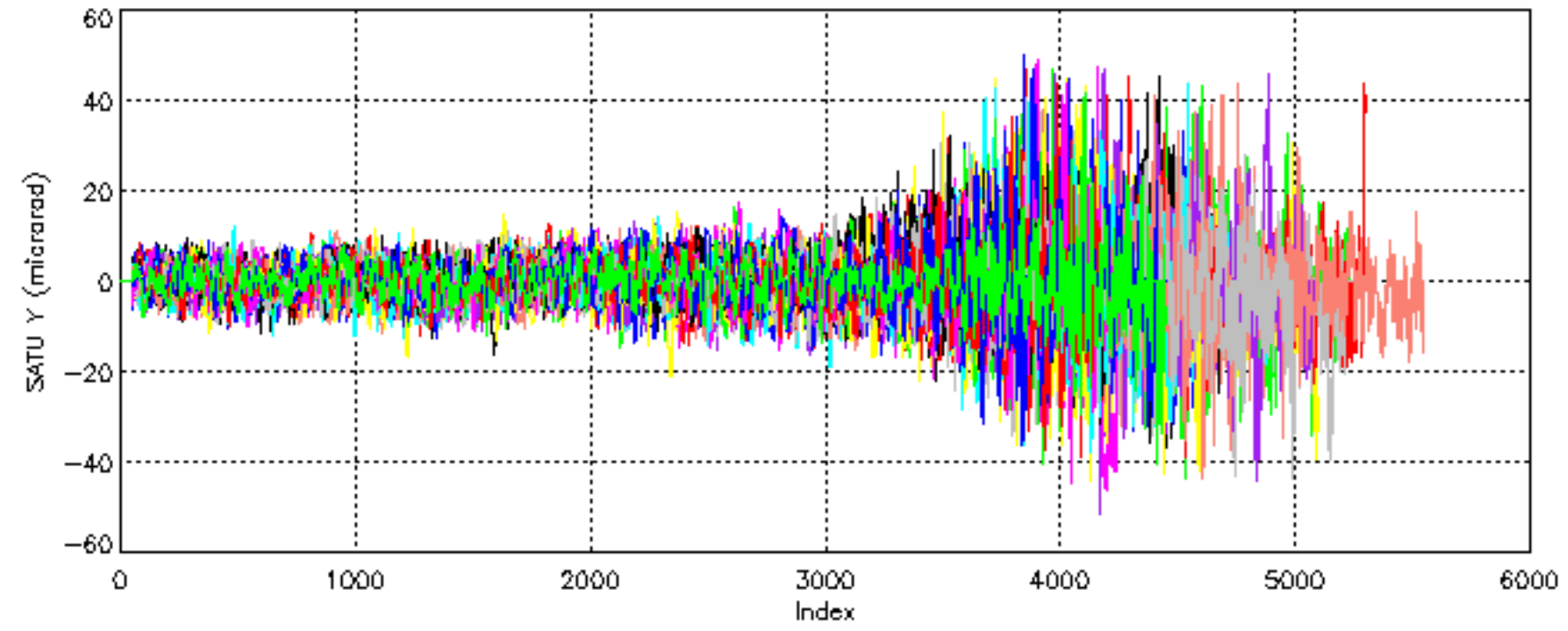
Tangent altitude at which the star is lost

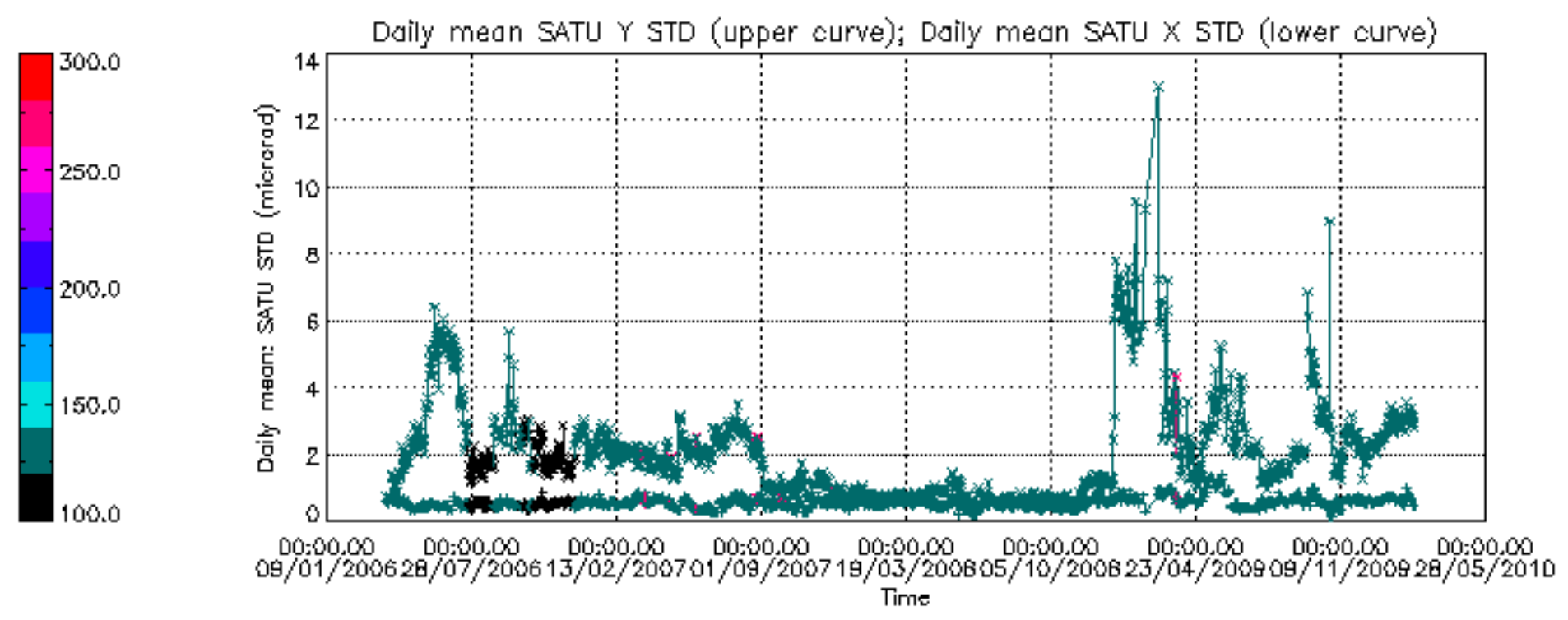


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100201_003952_000056972086_00288_41424_9421.N1

1; -718.0; 01-FEB-2010 00:39:52; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 8;41424
 2; -463.4; 01-FEB-2010 00:44:06; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;41424
 3; -116.1; 01-FEB-2010 00:49:54; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41424
 4; 17.5; 01-FEB-2010 00:52:07; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41425
 5; 106.9; 01-FEB-2010 00:53:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41425
 6; 194.7; 01-FEB-2010 00:55:04; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;41425
 7; 311.1; 01-FEB-2010 00:57:01; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41425
 8; 470.4; 01-FEB-2010 00:59:40; Dark ; 50.0; 12; Alp1Cru ; 0.77; 30000;occ; 100; 0;41425
 9; 591.6; 01-FEB-2010 01:01:41; Dark ; 45.0; 99; Del Cen ; 2.58; 26000;occ; 90; 0;41425
 10; 708.5; 01-FEB-2010 01:03:38; Dark ; 42.0; 159; Ups Car ; 2.92; 7200;occ; 84; 0;41425
 11; 823.9; 01-FEB-2010 01:05:34; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;41425
 12; 928.5; 01-FEB-2010 01:07:18; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;41425
 13; 1080.0; 01-FEB-2010 01:09:50; Dark ; 38.5; 34; Gam2Vel ; 1.79; 23000;occ; 77; 0;41425
 14; 1205.0; 01-FEB-2010 01:11:55; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;41425
 15; 1467.4; 01-FEB-2010 01:16:17; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;41425
 16; 1992.9; 01-FEB-2010 01:25:03; Dark ; 45.0; 8; 10Alp CMi ; 0.40; 6500;occ; 90; 0;41425
 17; 2341.1; 01-FEB-2010 01:30:51; Bright; 38.0; 170; 27Eps Gem ; 3.00; 9700;occ; 76; 0;41425
 18; 2455.8; 01-FEB-2010 01:32:46; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;41425
 19; 3427.8; 01-FEB-2010 01:48:58; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;41425
 20; 3613.3; 01-FEB-2010 01:52:03; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41425
 21; 3896.6; 01-FEB-2010 01:56:46; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;41425
 22; 4087.0; 01-FEB-2010 01:59:57; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41425
 23; 4304.9; 01-FEB-2010 02:03:35; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;41425
 24; 4797.7; 01-FEB-2010 02:11:48; Bright; 55.0; 59; 55Alp Oph ; 2.08; 8900;occ; 110; 0;41425
 25; 4925.7; 01-FEB-2010 02:13:55; Bright; 53.5; 126; 60Bet Oph ; 2.77; 4250;occ; 107; 0;41425

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100201_021425_000045462086_00289_41425_9422.N1

1; -1080.7; 01-FEB-2010 02:14:25; Bright; 54.0; 126; 60Bet Oph ; 2.77; 4250;occ; 108; 59;41425
 2; -721.4; 01-FEB-2010 02:20:24; Dark ; 44.5; 86; 35Eta Oph ; 2.43; 10200;occ; 89; 0;41425
 3; -462.6; 01-FEB-2010 02:24:43; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;41425
 4; -378.9; 01-FEB-2010 02:26:07; Dark ; 44.5; 158; 6Pi Sco ; 2.91; 28000;occ; 89; 0;41425
 5; -115.5; 01-FEB-2010 02:30:30; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41425
 6; 18.5; 01-FEB-2010 02:32:44; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41426
 7; 107.6; 01-FEB-2010 02:34:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41426
 8; 195.5; 01-FEB-2010 02:35:41; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;41426
 9; 312.2; 01-FEB-2010 02:37:38; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41426
 10; 470.9; 01-FEB-2010 02:40:17; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41426
 11; 592.5; 01-FEB-2010 02:42:18; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41426
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16; 1469.8; 01-FEB-2010 21:23:31; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;41437
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 16; 5941.0; 02-FEB-2010 20:25:49; Dark ; 42.5; 131; Gam Lup ; 2.80; 26000;occ; 85; 0;41450
 17; 6161.2; 02-FEB-2010 20:29:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41450
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 19; 6318.2; 02-FEB-2010 20:32:06; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41450
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 22; 6752.7; 02-FEB-2010 20:39:21; Dark ; 40.0; 159; Ups Car ; 2.92; 7200;occ; 80; 0;41450
 23; 6868.1; 02-FEB-2010 20:41:16; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41450
 24; 6971.9; 02-FEB-2010 20:43:00; Dark ; 3.5; 46; Del Vel ; 1.95; 10600;occ; 7; 0;41450

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 23; 4935.1; 03-FEB-2010 02:51:27; Bright; 55.0; 126; 60Bet Oph ; 2.77; 4250;occ; 110; 0;41454
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 27; 6081.3; 03-FEB-2010 03:10:33; Dark ; 45.0; 109; Bet Lup ; 2.68; 26000;occ; 90; 0;41454
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 31; 6522.3; 03-FEB-2010 03:17:54; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41454
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 33; 6754.3; 03-FEB-2010 03:21:46; Dark ; 36.5; 159; Ups Car ; 2.92; 7200;occ; 73; 0;41454
 34; 6869.4; 03-FEB-2010 03:23:41; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;41454
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 36; 7123.0; 03-FEB-2010 03:27:54; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41454
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 38; 7508.8; 03-FEB-2010 03:34:20; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;41454
 39; 8029.3; 03-FEB-2010 03:43:01; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;41454
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8; 3603.3; 03-FEB-2010 20:55:50; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;41465
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 22; 6975.8; 03-FEB-2010 18:30:51; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41463
 23; 7129.7; 03-FEB-2010 18:33:25; Dark ; 1.0; 65; Lam Vel ; 2.20; 4400;occ; 2; 0;41463

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 9; 4809.6; 03-FEB-2010 19:35:20; Bright; 56.0; 59; 55Alp Oph ; 2.08; 8900;occ; 112; 0;41464
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 11; 5335.2; 03-FEB-2010 19:44:06; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;41464
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 17; 6527.6; 03-FEB-2010 20:03:58; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41464
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 21; 6975.5; 03-FEB-2010 20:11:26; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41464

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 12; 940.9; 04-FEB-2010 01:13:15; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41468
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 21; 4810.7; 04-FEB-2010 02:17:45; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;41468
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 10; 722.7; 04-FEB-2010 02:50:13; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;41469
 11; 837.5; 04-FEB-2010 02:52:08; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;41469
 12; 941.0; 04-FEB-2010 02:53:51; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41469
 13; 1094.9; 04-FEB-2010 02:56:25; Dark ; 46.5; 65; Lam Vel ; 2.20; 4400;occ; 93; 0;41469
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18; 3428.4; 04-FEB-2010 03:35:19; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;41469
19; 3602.2; 04-FEB-2010 03:38:12; Bright; 19.5; 60; 7Bet UMi ; 2.08; 3950;occ; 39; 0;41469
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 3; -1950.0; 04-FEB-2010 03:46:16; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;41469
 4; -1725.4; 04-FEB-2010 03:50:01; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41469
 5; -1095.7; 04-FEB-2010 04:00:30; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;41469
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11; 626.7; 04-FEB-2010 04:29:13; Dark ; 44.0; 99; Del Cen ; 2.58; 26000;occ; 88; 0;41470
12; 838.0; 04-FEB-2010 04:32:44; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41470
13; 941.5; 04-FEB-2010 04:34:28; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41470
14; 1095.2; 04-FEB-2010 04:37:01; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;41470
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11; 723.4; 04-FEB-2010 06:11:26; Dark ; 37.0; 159; Ups Car ; 2.92; 7200;occ; 74; 0;41471
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 5; 943.8; 04-FEB-2010 21:20:29; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;41480
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 5; 146.9; 04-FEB-2010 22:47:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41481
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8; 948.0; 05-FEB-2010 22:29:32; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41495
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12; 4085.3; 05-FEB-2010 23:21:50; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;41495
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14; 5624.1; 05-FEB-2010 18:45:41; Dark ; 52.5; 16; 21Alp Sco ; 1.02; 3000;occ; 105; 0;41492
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5; 3596.2; 05-FEB-2010 19:52:29; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;41493
6; 3883.3; 05-FEB-2010 19:57:16; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;41493


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3; -1215.3; 06-FEB-2010 04:35:53; Bright; 42.0; 59; 55Alp Oph ; 2.08; 8900;occ; 84; 0;41498
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3; -344.4; 12-FEB-2010 23:28:28; Dark ; 49.0; 25; 35Lam Sco ; 1.62; 28000;occ; 98; 0;41595
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5; -157.9; 12-FEB-2010 23:31:34; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;41595
6; -70.0; 12-FEB-2010 23:33:02; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;41595
7; 38.8; 12-FEB-2010 23:34:51; Dark ; 45.5; 131; Gam Lup ; 2.80; 26000;occ; 91; 0;41596
8; 232.6; 12-FEB-2010 23:38:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41596
9; 370.9; 12-FEB-2010 23:40:23; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41596
10; 559.4; 12-FEB-2010 23:43:31; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;41596
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12; 933.7; 12-FEB-2010 23:49:46; Dark ; 39.5; 91; Kap Vel ; 2.49; 26000;occ; 79; 0;41596
13; 1132.8; 12-FEB-2010 23:53:05; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;41596
14; 1738.9; 13-FEB-2010 00:03:11; Dark ; 51.0; 48; 30Alp Hya ; 1.98; 4100;occ; 102; 0;41596
15; 2385.4; 13-FEB-2010 00:13:57; Bright; 40.0; 17; 78Bet Gem ; 1.16; 4500;occ; 80; 0;41596
16; 3429.9; 13-FEB-2010 00:31:22; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;41596
17; 3567.1; 13-FEB-2010 00:33:39; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41596
18; 3858.0; 13-FEB-2010 00:38:30; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;41596
19; 4077.7; 13-FEB-2010 00:42:10; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;41596
20; 4187.6; 13-FEB-2010 00:44:00; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;41596
21; 4325.4; 13-FEB-2010 00:46:17; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;41596
22; 4736.1; 13-FEB-2010 00:53:08; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;41596
23; 4857.8; 13-FEB-2010 00:55:10; Bright; 46.5; 59; 55Alp Oph ; 2.08; 8900;occ; 93; 0;41596
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3; 556.0; 12-FEB-2010 10:18:41; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;41588
4; 642.5; 12-FEB-2010 10:20:07; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;41588
5; 931.7; 12-FEB-2010 10:24:56; Dark ; 36.5; 91; Kap Vel ; 2.49; 26000;occ; 73; 0;41588
6; 1130.6; 12-FEB-2010 10:28:15; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;41588
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2; 2005.0; 12-FEB-2010 10:42:50; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;41588
3; 2385.4; 12-FEB-2010 10:49:10; Bright; 39.5; 17; 78Bet Gem ; 1.16; 4500;occ; 79; 0;41588
4; 3430.0; 12-FEB-2010 11:06:35; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;41588
5; 3860.2; 12-FEB-2010 11:13:45; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;41588
6; 4078.7; 12-FEB-2010 11:17:23; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41588
7; 4324.3; 12-FEB-2010 11:21:29; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;41588
8; 4734.6; 12-FEB-2010 11:28:19; Bright; 33.0; 168; 17Zet Aql ; 2.99; 11000;occ; 66; 0;41588
9; 4854.7; 12-FEB-2010 11:30:19; Bright; 45.5; 59; 55Alp Oph ; 2.08; 8900;occ; 91; 0;41588
10; 4988.6; 12-FEB-2010 11:32:33; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;41588
11; 5416.7; 12-FEB-2010 11:39:41; Dark ; 51.5; 86; 35Eta Oph ; 2.43; 10200;occ; 103; 0;41588
12; 5568.0; 12-FEB-2010 11:42:13; Dark ; 45.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 90; 0;41588

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 14; 5767.1; 12-FEB-2010 11:45:32; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;41588
 15; 5875.2; 12-FEB-2010 11:47:20; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;41588
 16; 5963.6; 12-FEB-2010 11:48:48; Dark ; 49.5; 141; Bet Ara ; 2.84; 4600;occ; 99; 0;41588
 17; 6067.8; 12-FEB-2010 11:50:32; Dark ; 44.5; 131; Gam Lup ; 2.80; 26000;occ; 89; 0;41588
 18; 6263.1; 12-FEB-2010 11:53:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41588
 19; 6402.5; 12-FEB-2010 11:56:07; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41588
 20; 6591.8; 12-FEB-2010 11:59:16; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;41588
 21; 6679.0; 12-FEB-2010 12:00:44; Dark ; 57.5; 64; Gam Cen ; 2.20; 10600;occ; 115; 0;41588
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 23; 7166.9; 12-FEB-2010 12:08:51; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;41588
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 5; 3430.1; 12-FEB-2010 12:47:11; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;41589
 6; 3568.9; 12-FEB-2010 12:49:29; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;41589
 7; 3860.0; 12-FEB-2010 12:54:21; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;41589
 8; 4078.5; 12-FEB-2010 12:57:59; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41589
 9; 4324.4; 12-FEB-2010 13:02:05; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41589
 10; 4734.8; 12-FEB-2010 13:08:55; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41589
 11; 4854.9; 12-FEB-2010 13:10:55; Bright; 62.0; 59; 55Alp Oph ; 2.08; 8900;occ; 124; 0;41589
 12; 4989.6; 12-FEB-2010 13:13:10; Bright; 48.0; 126; 60Bet Oph ; 2.77; 4250;occ; 96; 0;41589
 13; 5417.5; 12-FEB-2010 13:20:18; Dark ; 50.5; 86; 35Eta Oph ; 2.43; 10200;occ; 101; 0;41589
 14; 5568.5; 12-FEB-2010 13:22:49; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;41589
 15; 5688.6; 12-FEB-2010 13:24:49; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41589
 16; 5767.7; 12-FEB-2010 13:26:08; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;41589
 17; 5875.2; 12-FEB-2010 13:27:56; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;41589
 18; 5963.8; 12-FEB-2010 13:29:24; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;41589
 19; 6068.8; 12-FEB-2010 13:31:09; Dark ; 47.5; 131; Gam Lup ; 2.80; 26000;occ; 95; 0;41589
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 21; 6402.9; 12-FEB-2010 13:36:43; Dark ; 50.5; 10; Bet Cen ; 0.61; 28000;occ; 101; 0;41589
 22; 6592.5; 12-FEB-2010 13:39:53; Dark ; 53.0; 12; Alp1Cru ; 0.77; 30000;occ; 106; 0;41589
 23; 6679.8; 12-FEB-2010 13:41:20; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41589
 24; 6968.1; 12-FEB-2010 13:46:09; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41589
 25; 7167.2; 12-FEB-2010 13:49:28; Dark ; 44.0; 65; Lam Vel ; 2.20; 4400;occ; 88; 0;41589
 26; 7532.8; 12-FEB-2010 13:55:33; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;41589

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 3; 2005.3; 12-FEB-2010 14:04:02; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;41590
 4; 2385.4; 12-FEB-2010 14:10:22; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;41590
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 6; 3568.6; 12-FEB-2010 14:30:05; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;41590
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 12; 4989.7; 12-FEB-2010 14:53:46; Bright; 46.0; 126; 60Bet Oph ; 2.77; 4250;occ; 92; 0;41590
 13; 5418.5; 12-FEB-2010 15:00:55; Dark ; 50.5; 86; 35Eta Oph ; 2.43; 10200;occ; 101; 0;41590
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 16; 5876.1; 12-FEB-2010 15:08:32; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;41590
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 19; 6264.8; 12-FEB-2010 15:15:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41590
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 22; 6680.8; 12-FEB-2010 15:21:57; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41590
 23; 6968.3; 12-FEB-2010 15:26:45; Dark ; 38.0; 91; Kap Vel ; 2.49; 26000;occ; 76; 0;41590
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8; 4325.1; 12-FEB-2010 16:23:17; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;41591
9; 4735.1; 12-FEB-2010 16:30:07; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;41591
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12; 5419.1; 12-FEB-2010 16:41:31; Dark ; 48.5; 86; 35Eta Oph ; 2.43; 10200;occ; 97; 0;41591
13; 5569.3; 12-FEB-2010 16:44:02; Dark ; 43.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 86; 0;41591
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18; 6265.6; 12-FEB-2010 16:55:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41591
19; 6593.8; 12-FEB-2010 17:01:06; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;41591
20; 6681.7; 12-FEB-2010 17:02:34; Dark ; 49.5; 64; Gam Cen ; 2.20; 10600;occ; 99; 0;41591
21; 6968.9; 12-FEB-2010 17:07:21; Dark ; 40.0; 91; Kap Vel ; 2.49; 26000;occ; 80; 0;41591
22; 7167.7; 12-FEB-2010 17:10:40; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;41591

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3; 2385.7; 12-FEB-2010 17:31:34; Bright; 39.0; 17; 78Bet Gem ; 1.16; 4500;occ; 78; 0;41592
4; 3430.1; 12-FEB-2010 17:48:58; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41592
5; 3568.0; 12-FEB-2010 17:51:16; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41592
6; 3859.1; 12-FEB-2010 17:56:07; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;41592
7; 4078.2; 12-FEB-2010 17:59:46; Bright; 58.0; 130; 23Bet Dra ; 2.80; 5800;occ; 116; 0;41592
8; 4324.8; 12-FEB-2010 18:03:53; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41592
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19; 6682.5; 12-FEB-2010 18:43:11; Dark ; 52.5; 64; Gam Cen ; 2.20; 10600;occ; 105; 0;41592
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7; 4078.0; 12-FEB-2010 19:40:22; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41593
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6; 5002.6; 14-FEB-2010 10:29:33; Dark ; 50.0; 126; 60Bet Oph ; 2.77; 4250;occ; 100; 0;41616
7; 5439.0; 14-FEB-2010 10:36:49; Dark ; 47.5; 86; 35Eta Oph ; 2.43; 10200;occ; 95; 0;41616
8; 5703.3; 14-FEB-2010 10:41:14; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41616
9; 6096.1; 14-FEB-2010 10:47:46; Dark ; 44.0; 131; Gam Lup ; 2.80; 26000;occ; 88; 0;41616
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11; 6419.8; 14-FEB-2010 10:53:10; Dark ; 46.0; 10; Bet Cen ; 0.61; 28000;occ; 92; 0;41616
12; 6498.5; 14-FEB-2010 10:54:29; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41616
13; 6606.1; 14-FEB-2010 10:56:16; Dark ; 47.0; 12; Alp1Cru ; 0.77; 30000;occ; 94; 0;41616
14; 6701.2; 14-FEB-2010 10:57:52; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;41616
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6; 5003.0; 14-FEB-2010 12:10:09; Dark ; 49.5; 126; 60Bet Oph ; 2.77; 4250;occ; 99; 0;41617
7; 5440.0; 14-FEB-2010 12:17:26; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;41617
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12; 6499.1; 14-FEB-2010 12:35:05; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41617

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8; 5704.6; 14-FEB-2010 14:02:27; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;41618
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3; 397.0; 15-FEB-2010 22:05:57; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;41638
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13; 5981.5; 15-FEB-2010 15:16:02; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;41633
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15; 6216.5; 15-FEB-2010 15:19:57; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;41633
16; 6351.4; 15-FEB-2010 15:22:12; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;41633
17; 6430.3; 15-FEB-2010 15:23:31; Dark ; 41.0; 10; Bet Cen ; 0.61; 28000;occ; 82; 0;41633
18; 6511.9; 15-FEB-2010 15:24:53; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41633
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4; 4073.8; 15-FEB-2010 16:24:51; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;41634
5; 4193.2; 15-FEB-2010 16:26:50; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;41634
6; 4329.0; 15-FEB-2010 16:29:06; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;41634
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5; 4330.4; 16-FEB-2010 20:59:18; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41651
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6; 587.3; 16-FEB-2010 21:37:31; Dark ; 48.0; 12; Alp1Cru ; 0.77; 30000;occ; 96; 0;41652
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9; 1740.3; 16-FEB-2010 21:56:44; Dark ; 48.0; 48; 30Alp Hya ; 1.98; 4100;occ; 96; 0;41652
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11; 4071.8; 16-FEB-2010 22:35:35; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;41652
12; 4330.5; 16-FEB-2010 22:39:54; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;41652
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7; 692.8; 16-FEB-2010 23:19:52; Dark ; 52.5; 64; Gam Cen ; 2.20; 10600;occ; 105; 0;41653
8; 931.9; 16-FEB-2010 23:23:51; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41653
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11; 4071.6; 17-FEB-2010 00:16:11; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41653
12; 4330.6; 17-FEB-2010 00:20:30; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41653
13; 5022.3; 17-FEB-2010 00:32:01; Dark ; 51.0; 126; 60Bet Oph ; 2.77; 4250;occ; 102; 0;41653
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3; -577.5; 16-FEB-2010 01:10:55; Dark ; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;41639
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3; 402.5; 16-FEB-2010 11:30:50; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41646
4; 485.8; 16-FEB-2010 11:32:14; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41646
5; 585.2; 16-FEB-2010 11:33:53; Dark ; 51.5; 12; Alp1Cru ; 0.77; 30000;occ; 103; 0;41646
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7; 929.9; 16-FEB-2010 11:39:38; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;41646
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3; 4072.4; 16-FEB-2010 12:32:00; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41646
4; 4329.9; 16-FEB-2010 12:36:18; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41646
5; 5018.7; 16-FEB-2010 12:47:46; Dark ; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;41646

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3; 4072.5; 16-FEB-2010 14:12:36; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41647
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5; 5019.2; 16-FEB-2010 14:28:23; Dark ; 50.5; 126; 60Bet Oph ; 2.77; 4250;occ; 101; 0;41647
6; 5721.4; 16-FEB-2010 14:40:05; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41647
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6; 5590.1; 16-FEB-2010 17:59:06; Dark ; 43.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 87; 0;41649
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4; 4331.6; 17-FEB-2010 17:06:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41663
5; 5028.3; 17-FEB-2010 17:18:07; Dark ; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;41663
6; 5731.2; 17-FEB-2010 17:29:50; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;41663
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13; 6737.2; 17-FEB-2010 17:46:36; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41663
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11; 6536.0; 17-FEB-2010 19:23:51; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;41664
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9; 6104.6; 17-FEB-2010 20:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41665
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13; 6629.9; 17-FEB-2010 21:06:00; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41665
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9; 938.8; 18-FEB-2010 02:13:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41669
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7; 70.7; 18-FEB-2010 03:39:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41670
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2; 3543.3; 18-FEB-2010 09:39:21; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;41673
3; 4068.8; 18-FEB-2010 09:48:07; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41673
4; 4332.3; 18-FEB-2010 09:52:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41673
5; 5737.5; 18-FEB-2010 10:15:55; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;41673
6; 5820.1; 18-FEB-2010 10:17:18; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;41673
7; 6108.6; 18-FEB-2010 10:22:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41673
8; 6375.7; 18-FEB-2010 10:26:34; Dark ; 43.0; 4; Alp1Cen ; -0.01; 5800;occ; 86; 0;41673
9; 6455.1; 18-FEB-2010 10:27:53; Dark ; 44.0; 10; Bet Cen ; 0.61; 28000;occ; 88; 0;41673
10; 6542.6; 18-FEB-2010 10:29:21; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41673
11; 6634.1; 18-FEB-2010 10:30:52; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41673
12; 6744.7; 18-FEB-2010 10:32:43; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41673
13; 6977.0; 18-FEB-2010 10:36:35; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;41673
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2; 3543.5; 18-FEB-2010 11:19:57; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;41674
3; 4068.4; 18-FEB-2010 11:28:42; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41674
4; 4332.2; 18-FEB-2010 11:33:06; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41674

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7; 6109.0; 18-FEB-2010 12:02:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41674
8; 6376.3; 18-FEB-2010 12:07:10; Dark ; 47.0; 4; Alp1Cen ;-0.01; 5800;occ; 94; 0;41674
9; 6455.5; 18-FEB-2010 12:08:29; Dark ; 44.5; 10; Bet Cen ; 0.61; 28000;occ; 89; 0;41674
10; 6543.3; 18-FEB-2010 12:09:57; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;41674
11; 6634.4; 18-FEB-2010 12:11:28; Dark ; 46.5; 12; Alp1Cru ; 0.77; 30000;occ; 93; 0;41674
12; 6745.4; 18-FEB-2010 12:13:19; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41674
13; 6977.6; 18-FEB-2010 12:17:11; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;41674
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3; 4068.4; 18-FEB-2010 13:09:18; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;41675
4; 4332.3; 18-FEB-2010 13:13:42; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;41675
5; 5738.6; 18-FEB-2010 13:37:08; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;41675
6; 5821.9; 18-FEB-2010 13:38:32; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41675
7; 6109.6; 18-FEB-2010 13:43:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41675
8; 6376.8; 18-FEB-2010 13:47:47; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;41675
9; 6456.2; 18-FEB-2010 13:49:06; Dark ; 51.5; 10; Bet Cen ; 0.61; 28000;occ; 103; 0;41675
10; 6544.4; 18-FEB-2010 13:50:34; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41675
11; 6634.9; 18-FEB-2010 13:52:05; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;41675
12; 6746.3; 18-FEB-2010 13:53:56; Dark ; 47.5; 64; Gam Cen ; 2.20; 10600;occ; 95; 0;41675
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3; 4068.4; 18-FEB-2010 14:49:54; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;41676
4; 4332.6; 18-FEB-2010 14:54:18; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;41676
5; 5739.4; 18-FEB-2010 15:17:45; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41676
6; 5822.8; 18-FEB-2010 15:19:08; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;41676
7; 6110.1; 18-FEB-2010 15:23:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41676
8; 6377.4; 18-FEB-2010 15:28:23; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41676
9; 6457.0; 18-FEB-2010 15:29:43; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41676
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11; 6635.2; 18-FEB-2010 15:32:41; Dark ; 47.5; 12; Alp1Cru ; 0.77; 30000;occ; 95; 0;41676
12; 6746.8; 18-FEB-2010 15:34:32; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;41676
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3; 4068.3; 18-FEB-2010 16:30:30; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41677
4; 4332.7; 18-FEB-2010 16:34:54; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;41677
5; 5740.2; 18-FEB-2010 16:58:22; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;41677
6; 5823.6; 18-FEB-2010 16:59:45; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;41677
7; 6111.3; 18-FEB-2010 17:04:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41677
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9; 6457.7; 18-FEB-2010 17:10:19; Dark ; 43.0; 10; Bet Cen ; 0.61; 28000;occ; 86; 0;41677
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3; 4067.8; 18-FEB-2010 18:11:05; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;41678
4; 4332.5; 18-FEB-2010 18:15:30; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;41678
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6; 5824.6; 18-FEB-2010 18:40:22; Dark ; 58.5; 75; 26Eps Sco ; 2.29; 4250;occ; 117; 0;41678
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3; 422.7; 18-FEB-2010 20:31:32; Dark ; 43.5; 10; Bet Cen ; 0.61; 28000;occ; 87; 0;41680
4; 511.0; 18-FEB-2010 20:33:01; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41680
5; 600.7; 18-FEB-2010 20:34:30; Dark ; 52.0; 12; Alp1Cru ; 0.77; 30000;occ; 104; 0;41680
6; 713.3; 18-FEB-2010 20:36:23; Dark ; 52.5; 64; Gam Cen ; 2.20; 10600;occ; 105; 0;41680
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7; 602.1; 19-FEB-2010 01:36:19; Dark ; 49.0; 12; Alp1Cru ; 0.77; 30000;occ; 98; 0;41683
8; 715.2; 19-FEB-2010 01:38:12; Dark ; 49.5; 64; Gam Cen ; 2.20; 10600;occ; 99; 0;41683
9; 944.8; 19-FEB-2010 01:42:02; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;41683
10; 1741.9; 19-FEB-2010 01:55:19; Dark ; 48.5; 48; 30Alp Hya ; 1.98; 4100;occ; 97; 0;41683
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12; 4067.4; 19-FEB-2010 02:34:05; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;41683
13; 4333.0; 19-FEB-2010 02:38:30; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;41683
14; 5743.7; 19-FEB-2010 03:02:01; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;41683
15; 5829.3; 19-FEB-2010 03:03:26; Dark ; 53.0; 75; 26Eps Sco ; 2.29; 4250;occ; 106; 0;41683
16; 6114.3; 19-FEB-2010 03:08:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41683
17; 6381.6; 19-FEB-2010 03:12:39; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;41683
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19; 6550.3; 19-FEB-2010 03:15:27; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;41683
20; 6638.7; 19-FEB-2010 03:16:56; Dark ; 46.0; 12; Alp1Cru ; 0.77; 30000;occ; 92; 0;41683
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22; 6981.3; 19-FEB-2010 03:22:38; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41683
23; 7777.7; 19-FEB-2010 03:35:55; Dark ; 49.0; 48; 30Alp Hya ; 1.98; 4100;occ; 98; 0;41683
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3; -1702.7; 19-FEB-2010 04:19:06; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41684
4; -291.6; 19-FEB-2010 04:42:37; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;41684
5; -205.8; 19-FEB-2010 04:44:03; Dark ; 52.5; 75; 26Eps Sco ; 2.29; 4250;occ; 105; 0;41684
6; 78.9; 19-FEB-2010 04:48:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41685
7; 346.1; 19-FEB-2010 04:53:15; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41685
8; 425.8; 19-FEB-2010 04:54:35; Dark ; 41.5; 10; Bet Cen ; 0.61; 28000;occ; 83; 0;41685
9; 514.9; 19-FEB-2010 04:56:04; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41685
10; 603.2; 19-FEB-2010 04:57:32; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;41685
11; 716.7; 19-FEB-2010 04:59:26; Dark ; 51.0; 64; Gam Cen ; 2.20; 10600;occ; 102; 0;41685
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13; 1742.1; 19-FEB-2010 05:16:31; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;41685
14; 3539.8; 19-FEB-2010 05:46:29; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41685
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3; 3431.5; 19-FEB-2010 20:50:04; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;41694
4; 3536.8; 19-FEB-2010 20:51:49; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;41694
5; 4065.5; 19-FEB-2010 21:00:38; Bright; 44.5; 130; 23Bet Dra ; 2.80; 5800;occ; 89; 0;41694
6; 4333.5; 19-FEB-2010 21:05:06; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;41694
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4; -196.7; 19-FEB-2010 21:30:12; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41694
5; -27.7; 19-FEB-2010 21:33:01; Dark ; 50.0; 141; Bet Ara ; 2.84; 4600;occ; 100; 0;41694
6; 84.1; 19-FEB-2010 21:34:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41695
7; 352.1; 19-FEB-2010 21:39:21; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41695
8; 431.9; 19-FEB-2010 21:40:40; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;41695
9; 607.9; 19-FEB-2010 21:43:36; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;41695
10; 723.9; 19-FEB-2010 21:45:32; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41695
11; 1157.1; 19-FEB-2010 21:52:46; Dark ; 45.0; 65; Lam Vel ; 2.20; 4400;occ; 90; 0;41695
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14; 3536.2; 19-FEB-2010 22:32:25; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;41695
15; 4065.1; 19-FEB-2010 22:41:14; Bright; 45.5; 130; 23Bet Dra ; 2.80; 5800;occ; 91; 0;41695
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3; -290.7; 19-FEB-2010 06:23:14; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;41685
4; -205.1; 19-FEB-2010 06:24:40; Dark ; 56.5; 75; 26Eps Sco ; 2.29; 4250;occ; 113; 0;41685
5; 79.4; 19-FEB-2010 06:29:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41686
6; 346.6; 19-FEB-2010 06:33:52; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;41686

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8; 515.8; 19-FEB-2010 06:36:41; Dark ; 45.0; 77; Eps Cen ; 2.30; 28000;occ; 90; 0;41686
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14; 6982.7; 19-FEB-2010 08:24:28; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;41686
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7; 5832.7; 19-FEB-2010 09:45:54; Dark ; 61.0; 75; 26Eps Sco ; 2.29; 4250;occ; 122; 0;41687
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11; 6554.2; 19-FEB-2010 11:38:31; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41688
12; 6640.9; 19-FEB-2010 11:39:58; Dark ; 38.0; 12; Alp1Cru ; 0.77; 30000;occ; 76; 0;41688
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4; 4333.4; 19-FEB-2010 12:42:06; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;41689
5; 4757.7; 19-FEB-2010 12:49:10; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;41689
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7; 5834.7; 19-FEB-2010 13:07:07; Dark ; 55.5; 75; 26Eps Sco ; 2.29; 4250;occ; 111; 0;41689
8; 6117.3; 19-FEB-2010 13:11:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41689
9; 6385.2; 19-FEB-2010 13:16:18; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;41689
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 5; 4757.9; 19-FEB-2010 14:29:47; Bright; 35.5; 168; 17Zet Aql ; 2.99; 11000;occ; 71; 0;41690
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 7; 5835.5; 19-FEB-2010 14:47:44; Dark ; 56.5; 75; 26Eps Sco ; 2.29; 4250;occ; 113; 0;41690
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 12; 6757.0; 19-FEB-2010 15:03:06; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41690
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 5; 4758.3; 19-FEB-2010 16:10:23; Bright; 52.5; 168; 17Zet Aql ; 2.99; 11000;occ; 105; 0;41691
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 13; 6757.9; 19-FEB-2010 16:43:42; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41691
 14; 6984.8; 19-FEB-2010 16:47:29; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;41691
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 4; 3537.4; 19-FEB-2010 17:30:38; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41692
 5; 4065.9; 19-FEB-2010 17:39:26; Bright; 46.0; 130; 23Bet Dra ; 2.80; 5800;occ; 92; 0;41692
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 7; 4333.7; 19-FEB-2010 17:43:54; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;41692
 8; 4758.5; 19-FEB-2010 17:50:59; Bright; 54.0; 168; 17Zet Aql ; 2.99; 11000;occ; 108; 0;41692
 9; 5334.4; 19-FEB-2010 18:00:35; Dark ; 42.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 84; 0;41692
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 12; 5837.4; 19-FEB-2010 18:08:58; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;41692
 13; 6007.2; 19-FEB-2010 18:11:48; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;41692
 14; 6119.0; 19-FEB-2010 18:13:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41692
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 16; 6466.8; 19-FEB-2010 18:19:27; Dark ; 47.5; 10; Bet Cen ; 0.61; 28000;occ; 95; 0;41692
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 3; 3431.5; 19-FEB-2010 19:09:28; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41693
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 11; 5838.3; 19-FEB-2010 19:49:35; Dark ; 57.5; 75; 26Eps Sco ; 2.29; 4250;occ; 115; 0;41693
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3; 3532.9; 20-FEB-2010 16:58:56; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41706
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